STATISTICAL YEARBOOK

OF THE ELECTRIC UTILITY INDUSTRY/1981

EDISON ELECTRIC INSTITUTE
The association of electric companies

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Organized in 1933 and incorporated in 1970, EEI provides a principal forum where electric utility people exchange information on developments in their business, and maintain liaison between the industry and the Federal government. Its officers act as spokesmen for investor-owned electric utility companies on subjects of national interest.

Since 1933, EEI has been a strong, continuous stimulant to the art of making electricity. A basic objective is the "advancement in the public service of the art of producing, transmitting, and distributing electricity and the promotion of scientific research in such field." EEI ascertains factual information, data and statistics relating to the electric industry, and makes them available to member companies, the public, and government representatives.

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Publications Prepared By The Statistics Department

Analysis of Fuel For Electric Generation: Fuel Burned Under Boilers and By Internal Combustion Engines.
Fossil fuel data are presented by state, Census Division and total United States, by type of fuel burned (coal, oil and natural gas) under steam boilers and by internal combustion engines. Costs per kilowatt-hour, by fuel type; generation; and thermal heat content are provided for the current and four preceding years. Published annually in the fall. 9 p.

Year-End Electric Power Survey.
Reports results of survey conducted as of December 31, 1981, and seven years of past history. Covers the total electric utility industry of the contiguous U.S., including investor-owned systems, rural electric cooperatives, government owned. Power supply data including peak loads, capability to meet loads, kilowatt-hour requirements, load factors, and comparison between summer and winter seasons. Also contains three years of history on the manufacture of heavy electric power equipment showing quarterly orders, shipments, and backlogs of ordered equipment. Published annually in the spring. 40 p.

Annual Electric Power Survey.
Reports results of survey conducted as of April 1, 1982. Contains one or two years of history and ten-year projections on fuel use, capabilities, peak loads, and reserve margins (all for both the summer and winter seasons for each of the nine reliability councils and for total contiguous U.S.), and annual kilowatt-hour requirements and resulting load factors. Also includes information on the manufacture of heavy electric power equipment in the U.S. and foreign-made equipment to be imported by U.S. electric power systems, orders and shipments during the first quarter of the year and backlogs as of April 1. Scheduled generating additions by region are individually identified in an appendix. Published annually in late summer. 44 p.

Catalogue of Investor-Owned Electric Utility Companies Operating in the United States.
Complete reference of investor-owned company names and addresses, arranged on a state basis according to location of principal office. Holding companies and systems, and jointly-owned companies are cross-referenced with operating subsidiaries. Ranking of companies according to number of ultimate customers is presented. Published annually in the winter. 50 p.

Digest of Utility Financial Ratios.
Provides a method of calculating approximately 100 ratios used by the utility industry in analyzing financial reports. Categories of ratios include Earnings and Return; Common Dividend; Coverages, Interest and Preferred Dividend; Balance Sheet; Revenue and Sales; Expense; Tax; Plant; Depreciation; other ratios, such as funds used during construction as percent of earnings and per share, capital expenditures, etc. Prepared by EEI Financial Ratios Subcommittee of the Statistical Committee. 28 p.

EEI Pocketbook of Electric Utility Industry Statistics.
A pocket-sized quick reference of national electric industry data; some dating from 1902 to the present. Categories include data on installed capacity and generation; capital and finance; sales, revenue and customers; fuels; private and public ownership. Published annually in late fall. 37 p.

Magnetic Tape of Tables Contained in the Statistical Year Book.
The reel of magnetic tape (standard label, 1600 BPI, EDCDIC) contains 72 files corresponding to all of the tables printed in the hard-copy version of the Statistical Year Book. Each file is identified by a data set name in the form: TABLEnn. Documentation is provided showing positional layouts of the data base will facilitate the retrieval and manipulation of series dealing with most aspects of the electric utility industry.

Problems and Limitations of Intercompany Comparisons of Investor-Owned Electric Utilities
Assists analysts and others who may wish to make industry-wide comparisons of investor-owned electric utilities. The report illustrates some of the main factors that can facilitate valid inter-company differences in performances. The Executive Summary briefly examines some of the more important factors that lead to performance differences between companies. The Discussion Section covers in greater detail many of the factors that can generate invalid and inaccurate comparisons.

Statistical Releases.
Yearly subscription includes: 1) Electric Output, issued weekly for nine geographic divisions and total U.S.; data for latest 52-week period and calendar year to date; latest quarterly data for installed capacity generation and customer and sales information 2) Source and Disposition, issued quarterly, presents latest sources of electricity, including net generation, net imports of electricity, and net amounts available for distribution; customers, sales, and revenues by class of electric service; average use and revenue data for residential service 3) Advance Release, issued in summer, includes selected tables that appear later in Statistical Year Book 4) Statistical Year Book of the Electric Utility Industry.

Statistical Year Book of the Electric Utility Industry.
Data compiled from company reports, and other sources, on operational and financial aspects of the total electric utility industry. Categories include national and state statistics on installed capacity; electric generation and supply; sales, revenue and customers by class of service; investor-owned data are presented for operating and related ratios; fuel use; financial; and general economics series. Prepared under the general guidance of the EEI Statistical Committee; published annually in the fall. 97 p.

Order cards located in back of book.

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Scope and Coverage

This publication presents data on the electric utility industry, including generation, energy sales, customers and revenues, financial and economic. These data are collected and compiled from various sources as indicated on page 3. In all sections, except the Financial Section, data are presented for Investor-owned Electric Utilities and the Total Electric Utility Industry. Dissimilarity between the investor-owned and the publicly-owned segments of the electric utility industry would make overall financial data incompatible even if it were available. Therefore, in the Financial Section, data are shown for Investor-owned Electric Utilities only.

1981 in Review

The installed generating capacity of the electric utility industry for 1981 was 634,956,000 kilowatts, an increase of 3.5 percent over 1980.

No. of units added during 1981

Hydro	Conventional Steam	Nuclear Steam	Internal Combustion
5	33	4	3

Statistics on capacity and generation from pumped storage are included in hydroelectric and those for gas turbine are included in steam conventional.

The electric utility industry continued to reduce its dependency on foreign oil for generating electricity. A comparison between 1981 and 1980 presents the following information:

- Generation of electricity for the total United States increased only about 0.4 percent
- Generation significantly increased by about 6.4 percent in the Mountain and 2.5 percent in the West South Central regions, while it decreased in the East South Central and Middle Atlantic regions about 2.6 and 2.4 percent, respectively.
- Generation by coal increased from 58.0 percent to 59.3 percent of total thermal generation (an increase of 4.8 percent in the consumption of coal).
- Generation by oil decreased to 10.2 percent from 12.2 percent of thermal generation (a reduction of approximately 16.4 percent in barrels of oil consumed).

All utility revenues from ultimate customers totaled $111.6 billion in 1981, an increase of approximately 17 percent over the previous year. Revenues from residential sales accounted for approximately 39 percent of total revenues, while sales to commercial and industrial customers accounted for about 58 percent.

Energy sales to ultimate customers totaled 2,153,796 million kilowatt-hours, an increase of approximately one percent over the previous year.

Total ultimate customers, as of December 31, 1981, were 94,160,033 or an increase of 1.6 percent from a year earlier. Approximately 89 percent of this total can be attributed to customers in the residential classification. The average annual bill per residential customer was $522.24 or 5.89¢ per kilowatt-hour consumed. Average annual residential use equalled 8,863 kilowatt-hours.

During 1981 electric operating revenues increased by 16.9 percent to $94.3 billion. Contributing to this increase in operating revenues were modifications in basic rate structures and increases in fuel adjustments, where they were applicable.

Electric operating expenses increased by 16.4 percent to over $77.9 billion. The major component of operating expenses is the cost of fuel which increased 17.5 percent in 1981 to over $37.2 billion. Cost of fuel represented 63.2 percent of the total operation and maintenance expenses. Electric operating income of $16.3 billion represented 17.3 percent of total operating revenues.

The allowance for funds used during construction (AFUDC), a non-cash item, which is capitalized and for which a return may be received in the future, totaled $5.5 billion in 1981. AFUDC as a percent of net income before preferred and common dividends was 43.4 percent.

Total interest charges aggregated $11,971 million, up 20.2 percent over 1980 reflecting not only the impact of increased debt issues and borrowing, but also higher interest rates. The interest rate on new long-term debt during 1981 has been estimated to be about 14.4 percent.

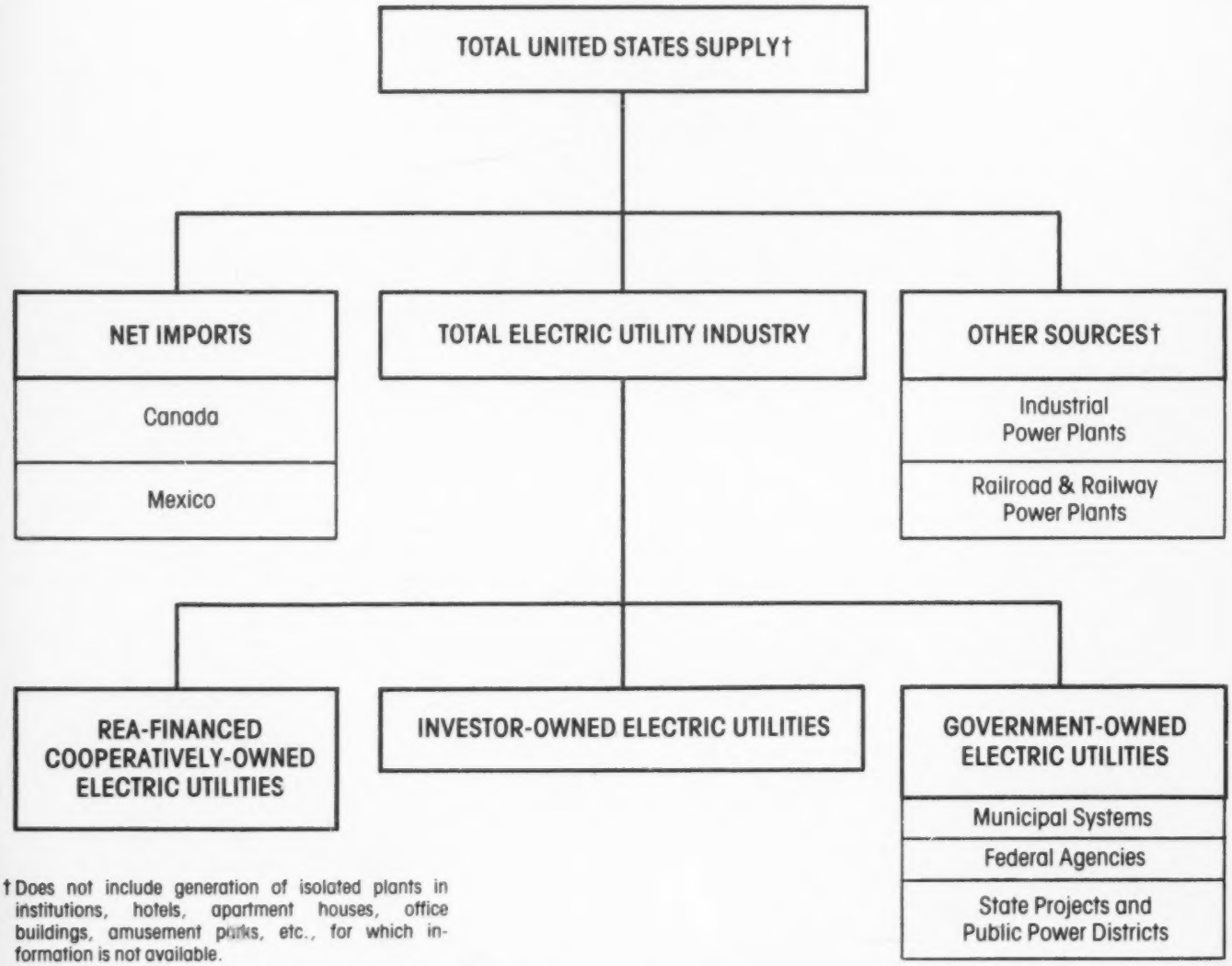
Since 1971, long-term debt as a percent of total capitalization gradually has declined from 54.7 to 50.2 percent in 1981. Correspondingly, common capital stock equity increased from 34.6 percent to 38.0 percent by year-end 1981.

Common stock dividend pay out ratios were 72.9 percent in 1981. Ten years ago the pay out ratio was 66.8 percent, more in line with the traditional pay out ratio of the industry.

The earned return on average common equity increased to 12.6 percent from 11.4 percent in 1980. However, the authorized rate of return on common stock equity for rate cases decided in 1981 is estimated at about 15.2 percent. During 1981 the investor-owned electric utilities were granted a total of $8,341 million in rate increases on an annualized basis. This is more than 40 percent above the $5,935 million granted in 1980.

The investor-owned electric utilities raised $13.8 billion in new long-term financing. Of the total $13.8 billion in new money, 62.0 percent was represented by long-term debt, 29.5 percent in common stock and the remainder, 8.5 percent, was preferred stock. Additionally, the industry raised an estimated $1.2 billion in new common stock as a result of the participation of stockholders in the Dividend Reinvestment Plans, which included not only the dividend reinvestment, but also supplementary cash contributions by the stockholders.

UNITED STATES SOURCES OF ELECTRIC GENERATION BY TYPE OF OWNERSHIP



† Does not include generation of isolated plants in institutions, hotels, apartment houses, office buildings, amusement parks, etc., for which information is not available.

SUMMARY

	Total Electric Utility Industry			
			Change	
	1981	1980	Amount	Percent
GENERATING CAPACITY – SECTION I (Kw in Thousands)				
Installed Name Plate at Beginning of Year	613,695	598,443	15,252	2.5
Added During Year	.....	.....	.....	.....
Retired During Year	.....	.....	.....	.....
Net Adjustments*	.....	.....	.....	.....
Balance at December 31	634,956	613,695	21,261	3.5
ELECTRIC POWER SUPPLY – SECTION II (Kw in Thousands)				
Capability at Time of Summer Peak Load (Contiguous U.S.)	572,056	558,539	13,517	2.4
Non-Coincident Summer Peak Load (Contiguous U.S.)	430,532	427,058	3,474	0.8
Margin of Reserve (Contiguous U.S.)	32.9%	30.8%		
GENERATION – SECTION III (Kwhr in Millions)				
Hydro	260,706	276,039	(15,333)	(5.6)
Conventional Steam	1,758,640	1,755,634	3,006	0.2
Nuclear Steam	272,681	251,121	21,560	8.6
Internal Combustion	2,759	3,620	(861)	(23.8)
Total Generation	2,294,786	2,286,414	8,372	0.4
Purchases from Industrial Sources	8,401	7,576	825	10.9
Imports from Canada and Mexico	27,922	25,021r	2,901	11.6
Total Energy Input†	2,331,109	2,319,011r	12,098	0.5
FUEL – SECTION IV				
Average Cost of Fuel per net Kwhr	2.42¢	2.07¢	0.35¢	16.9
Lbs. of Coal per Net Kwhr Generated	0.992	0.980	.012	1.2
Average Btu per Net Kwhr Generated	10,506	10,489	17	0.2
ENERGY – SECTION V (BTUs in Quadrillion)				
Annual Production of Energy	64.95p	65.50r	(0.55)	(0.8)
Total Energy Supply & Disposition	78.25p	79.62r	(1.37)	(1.7)
ENERGY SALES – SECTION VI (Kwhr in Millions)				
Residential	735,724	734,411r	1,313	0.2
Commercial	541,426	524,122r	17,304	3.3
Industrial	799,885	793,812r	6,073	0.8
Street and Highway Lighting	14,975	14,832r	143	1.0
Other	61,786	58,917r	2,869	4.9
Total Sales to Ultimate Customers	2,153,796	2,126,094r	27,702	1.3
Exports to Canada and Mexico	1,809	4,096r	(2,287)	(55.8)
Energy Accounted for but Not Sold	11,530	11,593r	(63)	(0.5)
Lost and Unaccounted for	163,974	177,228r	(13,254)	(7.5)
Total Disposition of Energy†	2,331,109	2,319,011r	12,098	0.5
Kwhr Used per Customer (Average for Year)				
Residential	8,863	9,025r	(162)	(1.8)
Commercial	55,018	54,538r	480	0.9
Total Ultimate Customer	22,998	23,167r	(169)	(0.7)
CUSTOMERS AT YEAR END – SECTION VII (Thousands)				
Residential	83,459	82,153r	1,306	1.6
Commercial	9,903	9,699r	204	2.1
Industrial	487	485r	2	0.4
Street and Highway Lighting	133	143r	(10)	(7.0)
Other	178	173r	5	2.9
Total Ultimate Customers	94,160	92,653r	1,507	1.6
REVENUES – SECTION VIII (Millions of Dollars)				
Residential	$ 43,350	$ 37,581r	$ 5,769	15.4
Commercial	32,331	27,370r	4,961	18.1
Industrial	32,198	27,317r	4,881	17.9
Street and Highway Lighting	1,178	1,041r	137	13.2
Other	2,527	2,153r	374	17.4
Total Revenues from Ultimate Customers	$ 111,584	$ 95,462r	$16,122	16.9
Exports to Canada and Mexico	27	43r	(16)	(37.2)
Total Revenues from Sales of Energy	$ 111,611	$ 95,505r	$16,106	16.9
Average Annual Revenue per Customer:				
Residential	$ 522.24	$ 461.81r	$ 60.43	13.1
Commercial	$3,285.34	$2,848.00r	$437.34	15.4
Total Ultimate Customer	$1,191.51	$1,040.22r	$151.29	14.5
Average Revenue per Kwhr:				
Residential	5.89¢	5.12¢r	0.77¢	15.0
Commercial	5.97¢	5.22¢r	0.75¢	14.4
Total Ultimate Customer	5.18¢	4.49¢r	0.69¢	15.4
ECONOMICS & OTHER – SECTION X				
Miles of Overhead Electric Line, 22 Kv and Above	573,015	558,795	14,220	2.5
Employees of Investor-Owned Electric Utilities	490,500	476,600	13,900	2.9
Plant Ratio-Kwhr Generated/Kw of Capacity‡	3,676	3,773	(97)	(2.6)

*Represents reclassification in ownership between industrial and electric utility plants and rerating of turbines within the Electric Utility Industry.

†Excludes industrial for own use. ‡On basis of installed name plate capacity.

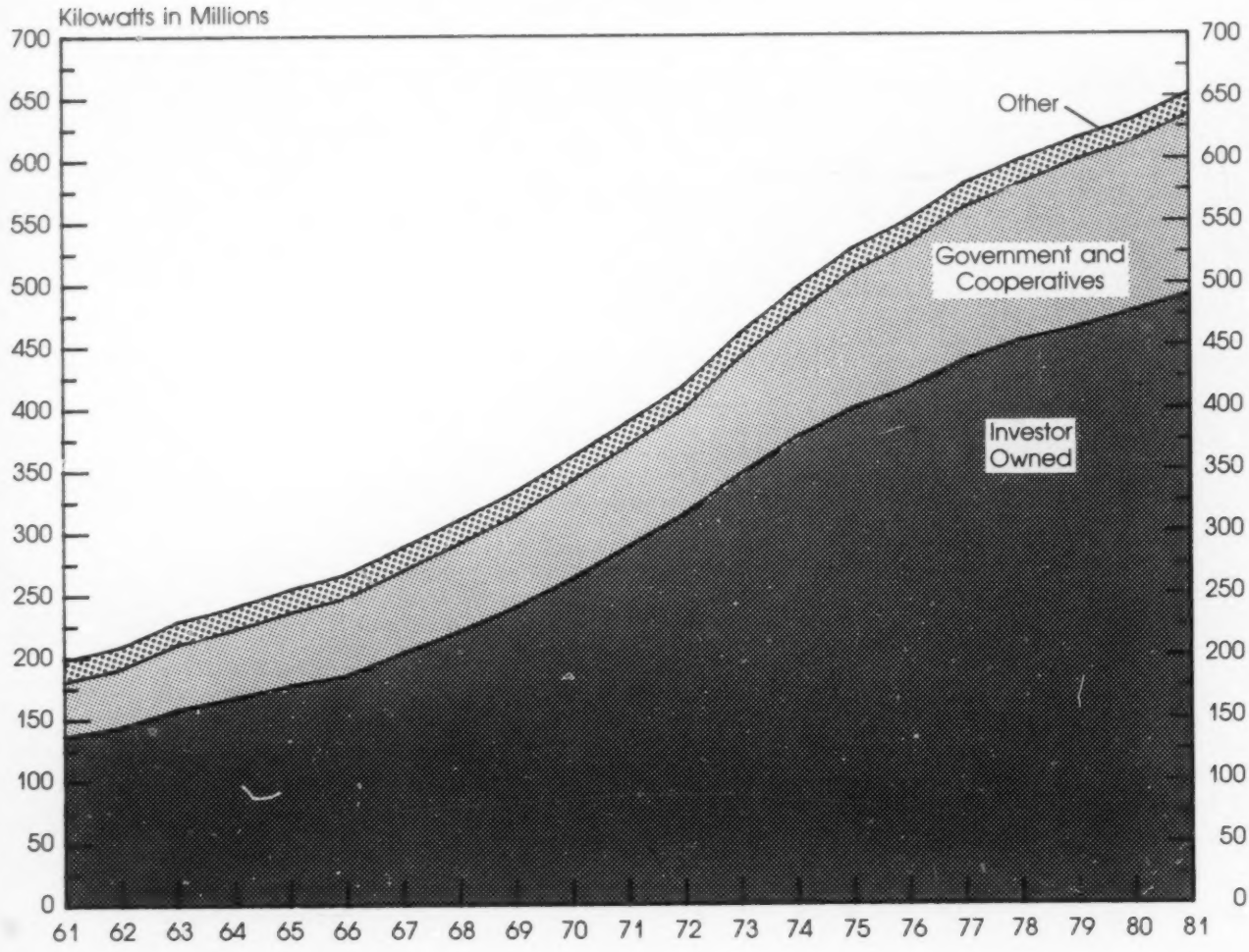
p Preliminary. r Revised. ( ) Denotes negative figure.

FINANCIAL – SECTION IX (Millions of Dollars)	Investor-Owned Electric Utilities 1981	1980	Change Amount	Change Percent
COMBINED BALANCE SHEETS:				
ASSETS				
Utility Plant:				
Electric	$290,723	$265,233	$25,490	9.6
Accumulated Provision for Depreciation and Amortization	58,783	53,324	5,459	10.2
Net Electric Utility Plant	231,940	211,909	20,031	9.5
Nuclear Fuel	7,449	6,704	745	11.1
Accumulated Provision for Amortization of Nuclear Fuel Assemblies	3,324	2,754	570	20.7
Net Nuclear Fuel	4,125	3,950	175	4.4
Net Total Electric Utility Plant	236,065	215,859	20,206	9.4
Other	16,241	14,673	1,568	10.7
Accumulated Provision for Depreciation and Amortization	4,959	4,502	457	10.2
Net Other Utility Plant	11,282	10,171	1,111	10.9
Total Utility Plant	314,413	286,610	27,803	9.7
Accumulated Provision for Depreciation and Amortization	67,066	60,580	6,486	10.7
Net Total Utility Plant Including Nuclear Fuel	247,347	226,030	21,317	9.4
Other Property and Investment	5,737	4,593	1,144	24.9
Total Current and Accrued Assets	28,100	25,928	2,172	8.4
Total Deferred Debits	6,532	5,064	1,468	29.0
Total Assets	$287,716	$261,615	$26,101	10.0
LIABILITIES				
Capitalization:				
Common Capital Stock	$ 35,406	$ 32,616	$ 2,790	8.6
Other Paid-In Capital Excluding Retained Earnings	20,838	20,509	329	1.6
Retained Earnings	27,511	24,865	2,646	10.6
Total Common Capital Stock Equity	86,755	77,990	8,765	11.2
Preferred Stock	26,817	25,755	1,062	4.1
Total Long-Term Debt	114,563	105,557	9,006	8.5
Total Capitalization	228,136	209,302	18,834	9.0
Total Current and Accrued Liabilities	32,395	29,564	2,831	9.6
Total Deferred Credits and Operating Reserves	11,140	9,317	1,823	19.6
Contributions in Aid of Construction	115	91	24	26.4
Deferred Income Taxes	15,931	13,341	2,590	19.4
Total Liabilities	$287,716	$261,615	$26,101	10.0
COMBINED INCOME STATEMENTS:				
Operating Revenues – Electric Department	$ 94,270	$ 80,636	$13,634	16.9
Operating Expenses Including Maintenance	58,842	50,457	8,385	16.6
Depreciation, Depletion and Amortization	6,893	6,192	701	11.3
Taxes	12,189	10,269	1,920	18.7
Total Operating Expenses	77,922	66,918	11,004	16.4
Operating Income	16,347	13,718	2,629	19.2
Other Income (Non-Operating) Net	4,672	3,765	907	24.1
Other Departments	1,031	909	122	13.4
Income before Interest Charges (Gross Income)	22,050	18,392	3,658	19.9
Total Interest Charges	9,421	7,865	1,556	19.8
Income before Extraordinary Items	12,628	10,527	2,101	20.0
Extraordinary Items	28	2	26	NA
Net Income	12,656	10,529	2,127	20.2
Preferred Dividend Charges	2,251	2,042	209	10.2
Available for Common Stock	10,405	8,487	1,918	22.6
Common Dividends	7,587	6,429	1,158	18.0
Net Income After Dividends	$ 2,818	$ 2,058	$ 760	36.9
Electric Utility Financing:				
Long-Term Debt	$ 8,929	$ 8,308	$ 621	7.5
Preferred Stock	1,174	2,011	(837)	(41.6)
Common Stock	4,089	4,063	26	0.6
Total Capital	$ 14,192	$ 14,382	$ (190)	(1.3)
Construction Expenditures				
Production	$ 20,912	$ 19,238r	$ 1,674	8.7
Transmission	2,270	2,353r	(83)	(3.5)
Distribution	4,606	4,483r	123	2.7
Other	2,902	2,261r	641	28.4
Total	$ 30,690	$ 28,335r	$ 2,355	8.3

Note: Total may not equal sum of components due to independent rounding.
( ) Denotes negative figure. NA Not Applicable.
r Revised.

GENERATING CAPACITY
SECTION I

Chart I-A
INSTALLED GENERATING CAPACITY
TOTAL UNITED STATES



Based on Table 1, page 7.
Source: Energy Information Administration, Form 4.

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TABLE 1
INSTALLED GENERATING CAPACITY IN THE UNITED STATES*
KILOWATTS IN THOUSANDS (NAME PLATE)

December 31st	Investor-Owned Utilities	Government and Cooperatives	Total Electric Utility Industry	Other Sources**	Total United States
1981	**490,874**	**144,082**	**634,956**	**17,142e**	**652,098**
1980	477,083	136,612	613,695	17,323e	631,018
1979	464,144	134,299	598,443	17,436	615,879
1978	453,647	125,665	579,312	19,391	598,703
1977	438,385	121,976	560,361	19,245	579,606
1976	415,504	115,658	531,162	19,113	550,275
1975	399,036	109,378	508,414	19,177	527,591
1974	376,122	100,046	476,168	19,351	495,519
1973	346,476	93,399	439,875	19,377	459,252
1972	314,353	84,400	398,753	18,768	417,521
1971	288,301	80,779	369,080	19,297	388,377
1970	262,675	78,415	341,090	19,237	360,327
1969	240,078	73,271	313,349	19,257	332,606
1968	220,766	70,292	291,058	19,123	310,181
1967	203,580	65,672	269,252	18,933	288,185
1966	185,671	62,172	247,843	18,973	266,816
1965	177,570	58,557	236,127	18,393	254,520
1964	167,704	54,581	222,285	18,186	240,471
1963	158,448	52,101	210,549	18,208	228,757
1962	144,577	46,490	191,067	17,674	208,741
1961	136,749	43,919	180,668	17,750	198,418

*Alaska and Hawaii included since 1963.

**Includes capacity of industrial, mine and railway electric power plants. Does not include the capacity of isolated plants in institutions, hotels, apartment houses, office buildings, amusement parks, etc., for which information is not available.

e Estimated by EEI.

Source: Energy Information Administration, Form 4.

TABLE 2
INSTALLED GENERATING CAPACITY – TOTAL ELECTRIC UTILITY INDUSTRY*
BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATTS IN THOUSANDS (NAME PLATE)

At December 31	Total Electric Utility Industry	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
TOTAL (Capacity of Generators Driven by All Types of Prime Mover)							
1981	**634,956**	**490,874**	**18,401**	**125,681**	**35,161**	**60,987**	**29,533**
1980	613,695	477,083	15,422	121,190	34,598	59,083	27,509
1979	598,443	464,144	13,837	120,462	34,525	58,346	27,591
1978	579,312	453,647	11,635	114,030	34,426	54,282	25,322
1977	560,361	438,385	10,889	111,087	33,291	53,183	24,613
1976	531,162	415,504	9,947	105,711	30,602	51,707	23,402
1975	508,414	399,036	9,136	100,242	28,787	50,133	21,322
1974	476,168	376,122	7,474	92,572	27,324	45,518	19,730
1973	439,875	346,476	7,288	86,111	24,956	44,520	16,635
1972	398,753	314,353	6,704	77,696	23,049	40,408	14,239
1971	369,080	288,301	5,470	75,309	21,992	39,656	13,661
1970	341,090	262,675	5,162	73,253	20,941	38,718	13,594
1969	313,349	240,078	4,318	68,953	20,035	36,130	12,788
1968	291,058	220,766	3,434	66,858	19,429	34,956	12,473
1967	269,252	203,580	3,019	62,653	18,049	33,640	10,964
1966	247,843	185,671	2,758	59,414	16,548	32,608	10,258
1965	236,127	177,570	2,309	56,248	15,407	31,690	9,151
1964	222,285	167,704	2,017	52,564	15,199	28,343	9,022
1963	210,549	158,448	1,873	50,228	14,222	27,315	8,691
1962	191,067	144,577	1,537	44,953	12,929	24,315	7,709
1961	180,668	136,749	1,446	42,473	12,205	23,257	7,011
HYDRO (Capacity of Generators Driven by Water Wheels and Turbines)							
1981	**77,175**	**24,340**	**66**	**52,769**	**4,692**	**35,895**	**12,182**
1980	76,378	24,227	67	52,084	4,692	35,212	12,180
1979	75,351	23,916	67	51,368	4,693	34,495	12,180
1978	71,014	23,847	67	47,100	4,694	30,431	11,975
1977	68,762	23,158	67	45,537	4,431	29,332	11,774
1976	67,757	23,134	67	44,556	4,010	29,031	11,515
1975	65,949	23,115	67	42,767	3,760	27,480	11,527
1974	63,560	22,737	54	40,769	3,814	25,447	11,508
1973	61,782	21,770	56	39,956	3,334	25,582	11,040
1972	56,386	19,122	54	37,210	3,330	24,336	9,544
1971	55,912	19,076	54	36,782	3,260	24,056	9,466
1970	55,056	18,850	56	36,150	3,195	23,499	9,456
1969	52,753	18,444	56	34,253	3,195	22,054	9,004
1968	51,168	18,337	57	32,774	3,177	20,905	8,692
1967	48,112	18,134	57	29,921	2,623	19,589	7,709
1966	44,977	16,381	57	28,539	2,005	19,531	7,003
1965	43,782	16,096	58	27,628	2,005	18,717	6,906
1964	42,188	15,296	58	26,834	1,979	17,947	6,908
1963	40,214	14,620	58	25,536	1,982	16,923	6,631
1962	37,342	13,629	47	23,666	1,651	16,149	5,866
1961	35,481	13,522	50	21,909	1,584	15,091	5,234
CONVENTIONAL STEAM (Capacity of Generators Driven by Steam Engines and Turbines)							
1981	**491,398**	**413,639**	**17,943**	**59,816**	**26,230**	**20,393**	**13,193**
1980	475,276	403,031	14,954	57,291	25,697	20,393	11,201
1979	462,999	392,349	13,375	57,275	25,599	20,378	11,298
1978	449,231	383,024	11,073	55,134	25,511	20,378	9,245
1977	436,426	371,976	10,429	54,021	24,590	20,378	9,053
1976	415,181	355,263	9,061	50,857	22,396	20,355	8,106
1975	397,649	340,907	8,264	48,478	20,843	20,332	7,303
1974	375,940	323,490	7,017	45,433	20,395	18,899	6,139
1973	352,072	303,536	6,836	41,700	18,511	18,917	4,272
1972	322,201	279,129	6,254	36,818	16,895	16,052	3,871
1971	299,996	260,016	5,018	34,962	16,026	15,576	3,360
1970	275,191	236,792	4,761	33,638	15,141	15,194	3,303
1969	252,411	217,196	3,925	31,290	14,291	14,051	2,948
1968	233,095	199,285	3,031	30,779	13,807	14,026	2,946
1967	214,435	182,340	2,608	29,487	13,046	14,026	2,415
1966	197,415	167,370	2,348	27,697	12,230	13,052	2,415
1965	188,054	159,800	1,902	26,352	11,197	12,948	2,207
1964	175,871	150,753	1,617	23,501	11,056	10,371	2,074
1963	166,229	142,235	1,477	22,517	10,120	10,367	2,030
1962	149,943	129,556	1,169	19,218	9,265	8,141	1,812
1961	141,784	122,095	1,075	18,614	8,728	8,141	1,745

See page 9 for footnotes.

TABLE 2 (continued)
INSTALLED GENERATING CAPACITY – TOTAL ELECTRIC UTILITY INDUSTRY*
BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATTS IN THOUSANDS (NAME PLATE)

At December 31	Total Electric Utility Industry	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
NUCLEAR STEAM (Capacity of Generators Driven by Nuclear Reactors)							
1981	**60,775**	**50,991**	**50**	**9,734**	**963**	**4,677**	**4,094**
1980	56,488	47,960	50	8,478	963	3,456	4,059
1979	54,593	46,065	50	8,478	963	3,456	4,059
1978	53,527	44,984	65	8,478	963	3,456	4,059
1977	49,880	41,654	55	8,171	963	3,456	3,752
1976	42,918	35,419	480	7,019	963	2,304	3,752
1975	39,754	33,539	480	5,735	963	2,304	2,468
1974	31,662	28,397	55	3,210	–	1,152	2,058
1973	21,118	19,766	53	1,299	–	–	1,299
1972	15,302	14,449	53	800	–	–	800
1971	8,688	7,833	55	800	–	–	800
1970	6,493	5,693	–	800	–	–	800
1969	3,980	3,180	–	800	–	–	800
1968	2,817	2,017	–	800	–	–	800
1967	2,887	2,087	**	800**	**	–	800
1966	1,942	1,142**	**	800**	**	–	800
1965	926	926**	**	**	**	–	**
1964	906	906**	**	**	**	–	**
1963	861	861**	**	**	–	–	**
1962	734	734	–	–	–	–	–
1961	442	442	–	–	–	–	–
INTERNAL COMBUSTION (Capacity of Generators Driven by Internal Combustion Engines)							
1981	**5,608**	**1,904**	**342**	**3,362**	**3,276**	**22**	**64**
1980	5,553	1,865	351	3,337	3,246	22	69
1979	5,500	1,814	345	3,341	3,270	17	54
1978	5,540	1,792	430	3,318	3,258	17	43
1977	5,293	1,597	338	3,358	3,307	17	34
1976	5,306	1,688	339	3,279	3,233	17	29
1975	5,062	1,475	325	3,262	3,221	17	24
1974	5,006	1,498	348	3,160	3,115	20	25
1973	4,903	1,404	343	3,156	3,111	21	24
1972	4,864	1,653	343	2,868	2,824	20	24
1971	4,484	1,376	343	2,765	2,706	24	35
1970	4,350	1,340	345	2,665	2,605	25	35
1969	4,205	1,258	337	2,610	2,549	25	36
1968	3,978	1,127	346	2,505	2,445	25	35
1967	3,818	1,019	354	2,445	2,380	25	40
1966	3,509	778	353	2,378	2,313	25	40
1965	3,365	748	349	2,268	2,205	25	38
1964	3,320	749	342	2,229	2,164	25	40
1963	3,245	732	338	2,175	2,120	25	30
1962	3,048	658	321	2,069	2,013	25	31
1961	2,961	690	321	1,950	1,893	25	32

*Alaska and Hawaii included since 1963.

**Generator capacity of the following plants is included in Conventional Steam:
Piqua – Piqua Municipal Power Plant, Ohio
Elk River – Rural Cooperative Power Assoc., Minnesota
Sheldon – Consumer's Public Power District, Nebraska
Parr – South Carolina Electric & Gas Co., South Carolina

Source: Energy Information Administration, Form 4.

TABLE 3
INSTALLED GENERATING CAPACITY – TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
AT DECEMBER 31st, 1980 and 1981 – KILOWATTS IN THOUSANDS (NAME PLATE)

Division/State	Total Electric Utility Industry		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980
Total United States	**634,956**	**613,695**	**77,175**	**76,378**	**491,398**	**475,276**	**60,775**	**56,488**	**5,608**	**5,553**
Maine	2,369	2,380	347	347	1,104	1,114	864	864	54	55
New Hampshire	1,566	1,566	378	378	1,188	1,188	–	–	–	–
Vermont	942	942	194	194	164	164	563	563	21	21
Massachusetts	9,661	9,651	1,642	1,642	6,985	7,002	863	836	171	171
Rhode Island	285	285	2	2	257	257	–	–	26	26
Connecticut	6,153	6,319	134	134	3,827	3,993	2,171	2,171	21	21
New England	**20,976**	**21,143**	**2,697**	**2,697**	**13,525**	**13,718**	**4,461**	**4,434**	**293**	**294**
New York	31,112	31,444	4,969	4,969	21,964	22,021	4,068	4,343	111	111
New Jersey	13,740	12,581	389	389	10,459	10,470	2,890	1,720	2	2
Pennsylvania	34,382	34,382	1,651	1,651	27,479	27,479	5,159	5,159	93	93
Middle Atlantic	**79,234**	**78,407**	**7,009**	**7,009**	**59,902**	**59,970**	**12,117**	**11,222**	**206**	**206**
Ohio	27,359	27,406	2	2	26,219	26,266	962	962	176	176
Indiana	16,947	17,109	93	93	16,802	16,964	–	–	52	52
Illinois	29,927	29,953	28	31	23,905	23,922	5,718	5,718	276	282
Michigan	22,656	22,701	2,320	2,320	16,746	16,809	3,172	3,172	418	400
Wisconsin	11,044	10,726	398	399	8,916	8,597	1,633	1,633	97	97
East North Central	**107,933**	**107,895**	**2,841**	**2,845**	**92,588**	**92,558**	**11,485**	**11,485**	**1,019**	**1,007**
Minnesota	8,811	8,761	145	142	6,559	6,518	1,755	1,755	352	346
Iowa	8,159	7,273	130	130	6,855	5,969	597	597	577	577
Missouri	15,001	13,846	844	844	13,781	12,628	–	–	376	374
North Dakota	3,878	3,450	430	430	3,363	2,933	–	–	85	87
South Dakota	2,201	2,208	1,383	1,383	710	710	–	–	108	115
Nebraska	5,248	5,142	234	234	3,429	3,364	1,338	1,303	247	241
Kansas	8,568	8,346	2	2	8,024	7,823	–	–	542	521
West North Central	**51,866**	**49,026**	**3,168**	**3,165**	**42,721**	**39,945**	**3,690**	**3,655**	**2,287**	**2,261**
Delaware	1,644	1,644	–	–	1,633	1,633	–	–	11	11
Maryland	9,845	9,187	493	493	7,461	6,803	1,828	1,828	63	63
District of Columbia	1,103	1,153	–	–	1,103	1,153	–	–	–	–
Virginia	11,771	11,667	945	840	7,139	7,140	3,654	3,654	33	33
West Virginia	15,250	15,250	100	100	15,150	15,150	–	–	–	–
North Carolina	17,569	15,605	1,850	1,850	12,762	12,017	2,953	1,733	4	5
South Carolina	12,304	11,674	2,265	2,265	6,608	5,978	3,430	3,430	1	1
Georgia	16,344	16,344	1,733	1,733	12,906	12,906	1,700	1,700	5	5
Florida	30,026	28,998	30	30	26,471	25,459	3,261	3,261	264	248
South Atlantic	**115,856**	**111,522**	**7,416**	**7,311**	**91,233**	**88,239**	**16,826**	**15,606**	**381**	**366**
Kentucky	15,489	13,650	746	746	14,730	12,891	–	–	13	13
Tennessee	17,100	15,879	3,755	3,755	12,124	12,124	1,221	–	–	–
Alabama	19,137	18,248	2,588	2,588	11,316	11,316	5,233	4,344	–	–
Mississippi	6,084	5,535	–	–	6,084	5,535	–	–	–	–
East South Central	**57,810**	**53,312**	**7,089**	**7,089**	**44,254**	**41,866**	**6,454**	**4,344**	**13**	**13**
Arkansas	7,990	7,190	1,087	1,087	5,006	4,206	1,845	1,845	52	52
Louisiana	13,977	12,855	–	–	13,784	12,666	–	–	193	189
Oklahoma	12,115	11,348	965	965	11,011	10,224	–	–	139	159
Texas	54,945	53,279	517	519	54,180	52,508	–	–	248	252
West South Central	**89,027**	**84,672**	**2,569**	**2,571**	**83,981**	**79,604**	**1,845**	**1,845**	**632**	**652**
Montana	3,183	3,183	2,066	2,066	1,114	1,114	–	–	3	3
Idaho	1,979	1,979	1,920	1,917	50	50	–	–	9	12
Wyoming	5,258	4,118	220	220	5,023	3,883	–	–	15	15
Colorado	6,249	6,149	871	771	4,960	4,960	343	343	75	75
New Mexico	4,988	5,025	24	24	4,847	4,887	–	–	117	114
Arizona	10,917	9,367	2,112	2,112	8,801	7,251	–	–	4	4
Utah	2,582	2,133	199	197	2,349	1,902	–	–	34	34
Nevada	4,128	3,858	682	682	3,380	3,110	–	–	66	66
Mountain	**39,284**	**35,812**	**8,094**	**7,989**	**30,524**	**27,157**	**343**	**343**	**323**	**323**
Washington	23,348	22,992	20,487	20,487	1,997	1,641	860	860	4	4
Oregon	8,709	8,509	5,888	5,688	1,599	1,599	1,216	1,216	6	6
California	38,180	37,832	9,785	9,397	26,815	26,855	1,478	1,478	102	102
Pacific	**70,237**	**69,333**	**36,160**	**35,572**	**30,411**	**30,095**	**3,554**	**3,554**	**112**	**112**
Alaska	1,171	1,146	129	127	814	814	–	–	228	205
Hawaii	1,562	1,427	3	3	1,445	1,310	–	–	114	114
Alaska & Hawaii	**2,733**	**2,573**	**132**	**130**	**2,259**	**2,124**	**–**	**–**	**342**	**319**

Source: Energy Information Administration, Form 4.

TABLE 4
INSTALLED GENERATING CAPACITY – INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
AT DECEMBER 31st, 1980 and 1981 – KILOWATTS IN THOUSANDS (NAME PLATE)

Division/State	Total Investor-Owned Utilities		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980
Total United States	**490,874**	**477,083**	**24,340**	**24,227**	**413,639**	**403,031**	**50,991**	**47,960**	**1,904**	**1,865**
Maine	2,356	2,367	346	346	1,104	1,114	864	864	42	43
New Hampshire	1,566	1,566	378	378	1,188	1,188	–	–	–	–
Vermont	870	870	181	181	108	108	563	563	18	18
Massachusetts	9,240	9,213	1,631	1,631	6,641	6,641	863	836	105	105
Rhode Island	283	283	–	–	257	257	–	–	26	26
Connecticut	6,082	6,248	131	131	3,774	3,940	2,171	2,171	6	6
New England	**20,397**	**20,547**	**2,667**	**2,667**	**13,072**	**13,248**	**4,461**	**4,434**	**197**	**198**
New York	24,066	24,398	861	861	20,992	21,049	2,172	2,447	41	41
New Jersey	13,626	12,467	387	387	10,349	10,360	2,890	1,720	–	–
Pennsylvania	34,374	34,374	1,651	1,651	27,472	27,472	5,159	5,159	92	92
Middle Atlantic	**72,066**	**71,239**	**2,899**	**2,899**	**58,813**	**58,881**	**10,221**	**9,326**	**133**	**133**
Ohio	26,581	26,628	–	–	25,491	25,538	962	962	128	128
Indiana	16,448	16,610	93	93	16,323	16,485	–	–	32	32
Illinois	28,670	28,676	14	14	22,899	22,905	5,718	5,718	39	39
Michigan	21,151	21,194	2,288	2,288	15,504	15,561	3,172	3,172	187	173
Wisconsin	9,730	9,409	364	365	7,755	7,433	1,583	1,583	28	28
East North Central	**102,580**	**102,517**	**2,759**	**2,760**	**87,972**	**87,922**	**11,435**	**11,435**	**414**	**400**
Minnesota	7,728	7,684	140	137	5,795	5,754	1,755	1,755	38	38
Iowa	7,067	6,181	127	127	6,127	5,241	597	597	216	216
Missouri	11,466	10,530	596	596	10,789	9,853	–	–	81	81
North Dakota	633	183	–	–	574	124	–	–	59	59
South Dakota	803	803	–	–	710	710	–	–	93	93
Nebraska	–	–	–	–	–	–	–	–	–	–
Kansas	6,457	6,522	2	2	6,429	6,487	–	–	26	33
West North Central	**34,154**	**31,903**	**865**	**862**	**30,424**	**28,169**	**2,352**	**2,352**	**513**	**520**
Delaware	1,463	1,463	–	–	1,462	1,462	–	–	1	1
Maryland	9,769	9,111	493	493	7,437	6,779	1,828	1,828	11	11
District of Columbia	1,103	1,153	–	–	1,103	1,153	–	–	–	–
Virginia	11,490	11,386	711	606	7,110	7,111	3,654	3,654	15	15
West Virginia	15,250	15,250	100	100	15,150	15,150	–	–	–	–
North Carolina	17,182	15,217	1,480	1,480	12,749	12,004	2,953	1,733	–	–
South Carolina	9,779	9,779	1,846	1,846	4,503	4,503	3,430	3,430	–	–
Georgia	15,149	15,149	556	556	12,888	12,888	1,700	1,700	5	5
Florida	24,771	23,976	–	–	21,478	20,683	3,261	3,261	32	32
South Atlantic	**105,956**	**102,484**	**5,186**	**5,081**	**83,880**	**81,733**	**16,826**	**15,606**	**64**	**64**
Kentucky	7,257	6,169	110	110	7,147	6,059	–	–	–	–
Tennessee	172	172	172	172	–	–	–	–	–	–
Alabama	9,977	9,088	1,343	1,343	6,857	6,857	1,777	888	–	–
Mississippi	5,350	4,801	–	–	5,350	4,801	–	–	–	–
East South Central	**22,756**	**20,230**	**1,625**	**1,625**	**19,354**	**17,717**	**1,777**	**888**	**–**	**–**
Arkansas	6,592	5,792	65	65	4,668	3,868	1,845	1,845	14	14
Louisiana	11,526	11,350	–	–	11,454	11,278	–	–	72	72
Oklahoma	9,754	9,457	–	–	9,718	9,421	–	–	36	36
Texas	45,550	43,856	10	10	45,491	43,807	–	–	49	39
West South Central	**73,422**	**70,455**	**75**	**75**	**71,331**	**68,374**	**1,845**	**1,845**	**171**	**161**
Montana	1,993	1,993	876	876	1,114	1,114	–	–	3	3
Idaho	1,358	1,354	1,301	1,297	50	50	–	–	7	7
Wyoming	3,896	3,896	–	–	3,882	3,882	–	–	14	14
Colorado	3,336	3,336	340	340	2,633	2,633	343	343	20	20
New Mexico	4,771	4,808	–	–	4,685	4,725	–	–	86	83
Arizona	3,602	2,874	7	7	3,591	2,863	–	–	4	4
Utah	2,403	1,956	63	63	2,335	1,888	–	–	5	5
Nevada	3,455	3,185	9	9	3,380	3,110	–	–	66	66
Mountain	**24,814**	**23,402**	**2,596**	**2,592**	**21,670**	**20,265**	**343**	**343**	**205**	**202**
Washington	2,935	2,579	965	965	1,967	1,611	–	–	3	3
Oregon	4,189	4,189	1,444	1,444	1,523	1,523	1,216	1,216	6	6
California	25,976	26,065	3,242	3,241	22,188	22,278	515	515	31	31
Pacific	**33,100**	**32,833**	**5,651**	**5,650**	**25,678**	**25,412**	**1,731**	**1,731**	**40**	**40**
Alaska	67	46	14	13	–	–	–	–	53	33
Hawaii	1,562	1,427	3	3	1,445	1,310	–	–	114	114
Alaska & Hawaii	**1,629**	**1,473**	**17**	**16**	**1,445**	**1,310**	**–**	**–**	**167**	**147**

Source: Energy Information Administration, Form 4.

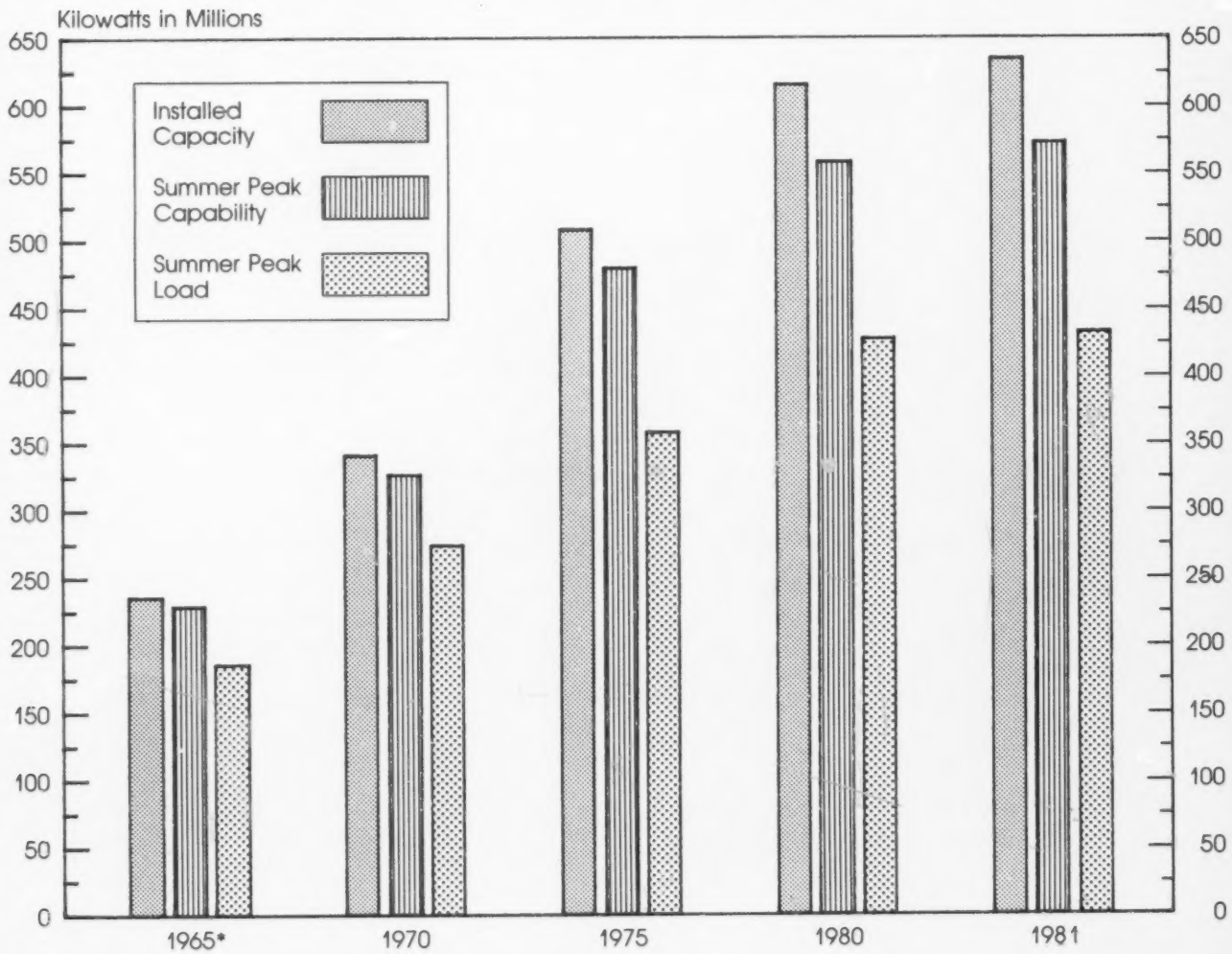
TABLE 5
CHANGES IN INSTALLED GENERATING CAPACITY
TOTAL ELECTRIC UTILITY INDUSTRY*
BY TYPE OF PRIME MOVER DRIVING THE GENERATOR
1962–1981 – KILOWATTS IN THOUSANDS (NAME PLATE)

At December 31	New Additions	Retirements	Adjustments** Plus	Adjustments** Minus	Net Additions
1981‡					
Hydro	.....	....	....	....	797
Steam	.....	....	....	....	20,409
Internal Combustion	.....	....	....	....	55
Total	.....	....	....	....	21,261
1980‡					
Hydro	.....	....	....	....	1,027
Steam	.....	....	....	....	14,172
Internal Combustion	.....	....	....	....	53
Total	.....	....	....	....	15,252
1979‡					
Hydro	.....	....	....	....	4,337
Steam	.....	....	....	....	14,834
Internal Combustion	.....	....	....	....	(40)
Total	.....	....	....	....	19,131
1978‡					
Hydro	.....	....	....	....	2,252
Steam	.....	....	....	....	16,452
Internal Combustion	.....	....	....	....	247
Total	.....	....	....	....	18,951
1977‡					
Hydro	.....	....	....	....	1,005
Steam	.....	....	....	....	28,207
Internal Combustion	.....	....	....	....	(13)
Total	.....	....	....	....	29,199
1976‡					
Hydro	.....	....	....	....	1,808
Steam	.....	....	....	....	20,696
Internal Combustion	.....	....	....	....	244
Total	.....	....	....	....	22,748
1975‡					
Hydro	.....	....	....	....	2,389
Steam	.....	....	....	....	29,801
Internal Combustion	.....	....	....	....	56
Total	.....	....	....	...	32,246
1974‡					
Hydro	.....	....	....	....	1,778
Steam	.....	....	....	....	34,412
Internal Combustion	.....	....	....	....	103
Total	.....	....	....	....	36,293
1973‡					
Hydro	.....	....	....	....	5,396
Steam	.....	....	....	....	35,687
Internal Combustion	.....	....	....	....	39
Total	.....	....	....	....	41,122
1972‡					
Hydro	.....	....	....	....	474
Steam	.....	....	....	....	28,819
Internal Combustion	.....	....	....	....	380
Total	.....	....	....	....	29,673
1971‡					
Hydro	.....	....	....	....	856
Steam	.....	....	....	....	27,000
Internal Combustion	.....	....	....	....	134
Total	.....	....	....	....	27,990
1970					
Hydro	2,244	48	109	3	2,302
Steam	25,506	905	882	190	25,293
Internal Combustion	242	40	42	98	146
Total	27,992	993	1,033	291	27,741
1969					
Hydro	1,538	115	64	2	1,585
Steam	19,837	856	1,605	107	20,479
Internal Combustion	219	39	78	31	227
Total	21,694	1,010	1,747	140	22,291
1968					
Hydro	3,015	80	145	24	3,056
Steam	18,830	697	593	136	18,590
Internal Combustion	210	57	39	32	160
Total	22,055	834	777	192	21,806
1967					
Hydro	3,320	215	30	–	3,135
Steam	17,992	459	578	146	17,965
Internal Combustion	364	56	24	23	309
Total	21,676	730	632	169	21,409
1966					
Hydro	1,240	51	8	2	1,195
Steam	10,486	565	604	148	10,377
Internal Combustion	183	54	24	9	144
Total	11,909	670	636	159	11,715
1965					
Hydro	1,661	64	2	5	1,594
Steam	11,943	773	1,202	169	12,203
Internal Combustion	102	70	19	6	45
Total	13,706	907	1,223	180	13,842
1964					
Hydro	2,021	36	22	33	1,974
Steam	9,366	534	926	71	9,687
Internal Combustion	93	43	31	6	75
Total	11,480	613	979	110	11,736
1963					
Hydro	2,838	62	10	2	2,784
Steam	9,475	771	7,269	193	15,780
Internal Combustion	165	36	17	8	138
Total	12,478	869	7,296	203	18,702
1962					
Hydro	1,992	79	10	62	1,861
Steam	8,563	842	920	190	8,451
Internal Combustion	97	47	54	17	87
Total	10,652	968	984	269	10,399

*Alaska and Hawaii included since 1964.
**Adjustments are result of reclassification in ownership between industrial and electric utility plants and rerating of turbines within the Electric Utility Industry.
( ) Denotes negative figure.
‡Complete data not available at time of printing.
Source: Energy Information Administration, Form 4.

ELECTRIC POWER SUPPLY
SECTION II

Chart II-A
CAPACITY, CAPABILITY & PEAK LOAD
TOTAL ELECTRIC UTILITY INDUSTRY



*Excludes Alaska and Hawaii.
Based on Table 2, page 8 and Table 7, page 14.
Source: Energy Information Administration, Form 4, and Edison Electric Institute; Electric Power Survey.

TABLE 7
CAPABILITY* – PEAK LOAD – KILOWATT-HOUR REQUIREMENTS
TOTAL ELECTRIC UTILITY INDUSTRY (EXCLUDING ALASKA AND HAWAII)

Year	Capability at Time of Summer Peak Load (Mw)	Non-Coincident Summer Peak Load (Mw)	Capability at Time of Winter Peak Load (Mw)†	Non-Coincident Winter Peak Load (Mw)†	Margin of Reserve Based on Non-Coincident Peak Load (%)†‡	Annual Kilowatt-Hour Requirements (in Millions)	Annual Load Factor Based on Peak Load (%)
1981	**572,056**	**430,532**	**581,084**	**391,199**	**32.9**	**2,309,465**	**61.2**
1980	558,539	427,058	572,195	384,567	30.8	2,292,718	61.1
1979	545,328	398,424	554,525	368,876	36.9	2,246,927	64.4
1978	545,700	408,050	561,550	383,100	33.7	2,218,700	62.1
1977	516,000	396,350	537,600	360,200	30.2	2,132,300	61.4
1976	498,750	370,900	511,000	349,850	34.5	2,039,500	62.6
1975	479,300	356,800	492,450	331,100	34.3	1,919,500	61.4
1974	444,400	349,250	467,400	302,500	27.2	1,871,700	61.2
1973	415,500	343,900	433,150	295,100	20.8	1,868,800	62.0
1972	381,700	319,150	394,050	290,950	19.6	1,752,200	62.5
1971	353,250	292,100	366,700	261,650	20.9	1,617,100	63.2
1970	326,900	274,650	339,050	248,550	19.0	1,536,400	63.9
1969	300,300	257,650	311,450	236,600	16.6	1,446,000	64.1
1968	278,950	238,000	288,750	226,700	17.2	1,327,200	63.5
1967	257,950	213,450	267,750	205,850	20.8	1,221,500	65.3
1966	240,700	203,350	247,650	193,700	18.4	1,152,900	64.7
1965	228,900	186,300	235,700	180,400	22.9	1,060,100	65.0
1964	216,500	175,000	222,400	171,100	23.7	986,800	64.2
1963	205,300	159,450	210,000	161,300	30.2(w)	921,800	65.2
1962	193,600	149,050	198,050	151,250	31.0(w)	860,200	64.9
1961	184,700	141,000	188,600	140,700	31.0	799,800	64.8

* Capability represents the maximum kilowatt output with all power sources available and with hydraulic equipment under actual water conditions. It must, therefore, provide the necessary allowance for maintenance, emergency outages, and system operating requirements. This rating is more indicative of the actual generating ability of existing power stations than the familiar name-plate rating as used in other tables of this publication.

† Beginning in 1973 capability and peak load data shown under Winter represent turn-of-year data for the winter season that follows the summer peak load data for that calendar year. Previously, data in this series was always for the month of December.

‡ Calculated from the maximum non-coincident peak load, summer or winter, and the capability at the time of this peak load. (w) Indicates that the non-coincident peak load, summer or winter, occurred during winter of that year.

Sources: North American Electric Reliability Council and Edison Electric Institute. All data series shown have a discontinuity between 1978 and 1979 because of the switch to NERC data. For calculation of percent changes between 1978 and 1979, see old series values for 1979 in Table 6 of 1979 edition.

TABLE 8
ELECTRICITY MADE AVAILABLE IN THE UNITED STATES
KILOWATT-HOURS IN MILLIONS

Year	Generation					Net Imports of Electric Energy	Total Available in U.S.	Estimated Population† (Thousands) (July 1)	Kwhr Per Person
	Investor-Owned Utilities	Government and Cooperatives	Total Electric Utility Industry	Other Sources*	Total United States				
1981	**1,785,524**	**509,262**	**2,294,786**	**64,446e**	**2,359,232**	**26,113**	**2,385,345**	**229,304**	**10,403**
1980	1,782,933	503,481	2,286,414	67,945e	2,354,359	20,925r	2,375,284r	227,158	10,457r
1979	1,756,170	491,189	2,247,359	71,375	2,318,734	20,334r	2,339,068r	224,567	10,416r
1978	1,721,163	485,150	2,206,313	78,967	2,285,280	19,328r	2,304,608r	222,095	10,377
1977	1,684,084	440,082	2,124,166	87,575	2,211,741	17,415	2,229,156	219,760	10,144
1976	1,582,029	455,645	2,037,674	87,084	2,124,758	8,611	2,133,369	217,563	9,806
1975	1,486,844	430,775	1,917,619	85,362	2,002,981	6,185	2,009,166	215,465	9,325
1974	1,442,114	424,322	1,866,436	101,572	1,968,008	12,694	1,980,702	213,342	9,284
1973	1,448,860	407,356	1,856,216	102,529	1,958,745	14,278	1,973,023	211,357	9,335
1972	1,358,929	390,708	1,749,637	104,508	1,854,145	7,744	1,861,889	209,284	8,896
1971	1,248,596	363,993	1,612,589	103,239	1,715,828	3,530	1,719,358	206,827	8,313
1970	1,183,190	348,419	1,531,609	108,162	1,639,771	1,960	1,641,731	203,984	8,048
1969	1,102,162	340,020	1,442,182	110,575	1,552,757	1,072	1,553,829	201,385	7,716
1968	1,019,313	310,130	1,329,443	106,586	1,436,029	(631)	1,435,398	199,399	7,199
1967	928,439	285,926	1,214,365	102,935	1,317,300	(299)	1,317,001	197,457	6,670
1966	880,837	263,513	1,144,350	105,094	1,249,444	1,092	1,250,536	195,576	6,394
1965	809,474	245,778	1,055,252	102,331	1,157,583	(141)	1,157,442	193,526	5,981
1964	756,183	227,807	983,990	99,751	1,083,741	1,955	1,085,696	191,141	5,680
1963	701,253	215,540	916,793	94,624	1,011,417	98	1,011,515	188,483	5,367
1962	653,070	201,703	854,773	91,709	946,482	536	947,018	185,771	5,098
1961	606,737	187,536	794,273	87,222	881,495	2,254	883,749	182,992	4,829

*Includes generation of industrial, mine and railway electric power plants. Does not include the generation of isolated plants in institutions, hotels, apartment houses, office buildings, amusement parks, etc., for which information is not available.

†U.S. Department of Commerce estimates; excludes Armed Forces overseas.

e Estimated by EEI. r Revised. ( ) Denotes negative figure.

Source: Energy Information Administration, Form 4.

TABLE 9
TOTAL UNITED STATES KILOWATT-HOUR SOURCE AND DISPOSITION
1961–1981 – KILOWATT-HOURS IN MILLIONS

	1981	1980	1979	1978	1977	1976	1975
SOURCE							
Generation							
Total Electric Utility Industry	2,294,786	2,286,414	2,247,359	2,206,313	2,124,166	2,037,674	1,917,619
Industrials	56,045e	60,369e	65,341	72,297	83,543	82,406	79,340
Industrials – for Sales to Electric Utility Industry	8,401	7,576	6,034	6,670	4,032	4,678	6,022
Total Generation	**2,359,232**	**2,354,359**	**2,318,734**	**2,285,280**	**2,211,741**	**2,124,758**	**2,002,981**
Imports from Canada & Mexico	27,922	25,021r	22,516r	21,514	20,159	10,989	11,268
Total Kilowatt-hours	**2,387,154**	**2,379,380r**	**2,341,250r**	**2,306,794**	**2,231,900**	**2,135,747**	**2,014,249**
DISPOSITION							
Total Sales to Ultimate Customers	2,153,796	2,126,094r	2,084,400r	2,017,818	1,950,791	1,849,625	1,733,024
Exports to Canada & Mexico	1,809	4,096r	2,182r	2,186r	2,744	2,378	5,083
Energy Used by Producer	1,462	2,540	3,382	2,372	2,462	2,559	3,068
Company Use & Free Service	10,068	9,053r	11,086	7,975	7,037	5,717	4,709
Lost and Unaccounted For	163,974	177,228r	174,859r	204,146r	185,323	193,062	189,025
Industrials	56,045e	60,369e	65,341	72,297	83,543	82,406	79,340
Total Kilowatt-hours	**2,387,154**	**2,379,380r**	**2,341,250r**	**2,306,794**	**2,231,900**	**2,135,747**	**2,014,249**

	1974	1973	1972	1971	1970	1969	1968
SOURCE							
Generation							
Total Electric Utility Industry	1,866,436	1,856,216	1,749,637	1,612,589	1,531,609	1,442,182	1,329,443
Industrials	94,955	95,761	98,241	96,495	102,440	105,203	103,026
Industrials – for Sales to Electric Utility Industry	6,617	6,768	6,267	6,744	5,722	5,372	3,560
Total Generation	**1,968,008**	**1,958,745**	**1,854,145**	**1,715,828**	**1,639,771**	**1,552,757**	**1,436,029**
Imports from Canada & Mexico	15,420	16,848	10,496	7,043	6,169	4,902	3,654
Total Kilowatt-hours	**1,983,428**	**1,975,593**	**1,864,641**	**1,722,871**	**1,645,940**	**1,557,659**	**1,439,683**
DISPOSITION							
Total Sales to Ultimate Customers	1,700,769	1,703,203	1,577,714	1,466,441	1,391,359	1,307,178	1,202,321
Exports to Canada & Mexico	2,726	2,570	2,752	3,514	4,209	3,830	4,285
Energy Used by Producer	3,059	3,137	3,081	2,854	2,301	2,515	2,469
Company Use & Free Service	4,850	4,912	4,412	3,894	3,984	3,626	3,399
Lost and Unaccounted For	177,069	166,010	178,441	149,673	141,647	135,307	124,183
Industrials	94,955	95,761	98,241	96,495	102,440	105,203	103,026
Total Kilowatt-hours	**1,983,428**	**1,975,593**	**1,864,641**	**1,722,871**	**1,645,940**	**1,557,659**	**1,439,683**

	1967	1966	1965	1964	1963	1962	1961
SOURCE							
Generation							
Total Electric Utility Industry	1,214,365	1,144,350	1,055,252	983,990	916,793	854,773	794,273
Industrials	97,856	102,257	99,376	96,821	91,690	89,228	85,459
Industrials – for Sales to Electric Utility Industry	5,079	2,837	2,955	2,930	2,934	2,481	1,763
Total Generation	**1,317,300**	**1,249,444**	**1,157,583**	**1,083,741**	**1,011,417**	**946,482**	**881,495**
Imports from Canada & Mexico	4,051	4,268	3,558	6,209	2,083	2,197	3,171
Total Kilowatt-hours	**1,321,351**	**1,253,712**	**1,161,141**	**1,089,950**	**1,013,500**	**948,679**	**884,666**
DISPOSITION							
Total Sales to Ultimate Customers	1,107,023	1,038,982	953,414	890,356	830,811	776,088	720,728
Exports to Canada & Mexico	4,350	3,176	3,699	4,253	1,985	1,661	917
Energy Used by Producer	2,559	2,305	2,802	3,015	2,548	3,173	2,672
Company Use & Free Service	2,956	2,755	2,434	2,303	2,189	2,029	2,026
Lost and Unaccounted For	106,607	104,237	99,416	93,202	84,277	76,500	72,864
Industrials	97,856	102,257	99,376	96,821	91,690	89,228	85,459
Total Kilowatt-hours	**1,321,351**	**1,253,712**	**1,161,141**	**1,089,950**	**1,013,500**	**948,679**	**884,666**

r Revised. e Estimated.

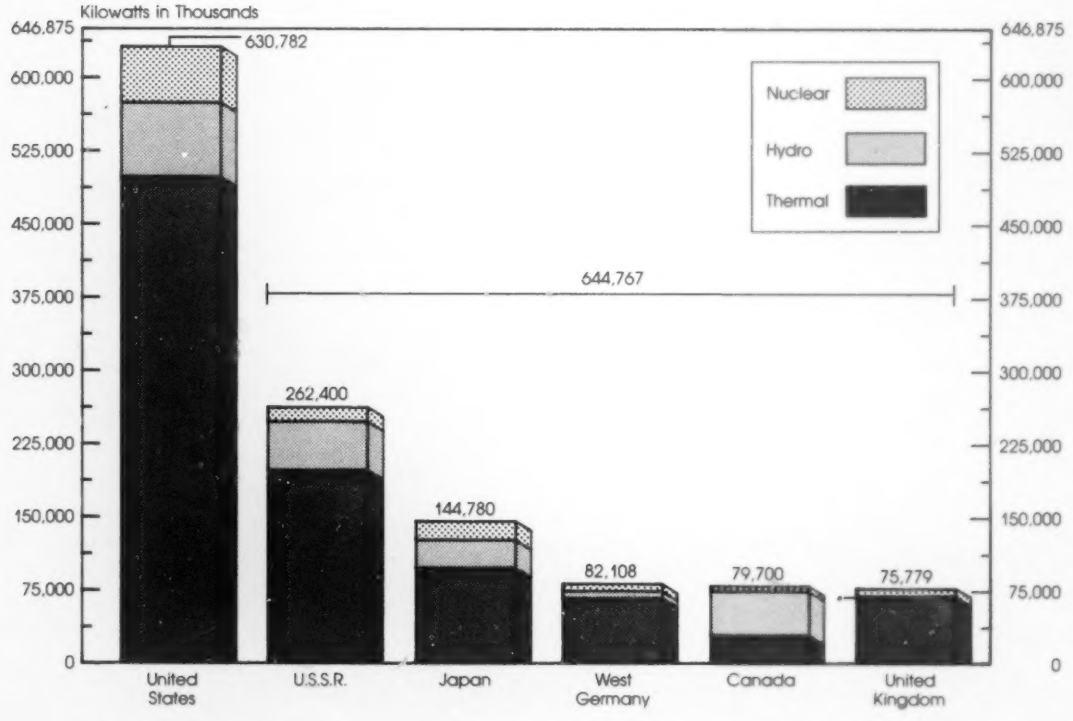
Sources: Energy Information Administration, Form 4; Statistics Canada and Edison Electric Institute.

TABLE 10
WORLD POWER DATA
FIFTEEN COUNTRIES WITH GREATEST INSTALLED GENERATING CAPACITY
1980

Country	Installed Capacity (Kilowatts in Thousands)				Energy Production (Kwhr in Millions)				Population (Thousands)	Kwhr Per Capita
	Hydro	Nuclear	Thermal	Total	Hydro	Nuclear	Thermal	Total		
United States	76,651	56,526	497,605	630,782	277,721	251,115	1,827,303	2,356,139	227,158†	10,372
U.S.S.R.	51,200	14,000	197,200	262,400	180,000	60,000	1,055,000	1,295,000	266,760	4,855
Japan	29,338	17,374	98,068	144,780	92,137	83,220	436,683	612,040	116,780	5,241
Germany (West)	6,400	8,708	67,000	82,108	18,400	41,500	308,872	368,772	61,560	5,990
Canada	45,400	6,300	28,000	79,700	250,998	35,880	79,799	366,677	23,940	15,316
United Kingdom	2,446	6,416	66,917	75,779	5,240	37,088	242,807	285,135	55,901	5,101
China (mainland)	21,000	–	46,000	67,000	55,600	–	245,000	300,600	1,027,000	293
France	19,282	14,394	29,228	62,904	69,870	60,882	127,000	257,752	53,710	4,799
Italy	15,850	1,100	29,602	46,552	49,000	2,300	135,005	186,305	57,040	3,266
India	12,329	640	20,706	33,675	46,866	2,986	66,480	116,332	667,326	174
Brazil	27,267	–	4,468	31,735	126,932	–	10,451	137,383	123,030	1,117
Spain	13,500	1,120	15,850	30,470	31,200	5,400	73,594	110,194	37,430	2,944
Poland	800	–	27,200	28,000	2,500	–	119,360	121,860	35,580	3,425
Sweden	14,650	3,900	8,450	27,000	61,750	21,500	13,000	96,250	8,310	11,582
Australia	6,525	–	17,626	24,151	17,067	–	78,814	95,881	14,620	6,558

† U.S. population July 1, 1980; excludes armed forces abroad. Dept. of Commerce, Bureau of Census.
Sources: Capacity and production: UN 1980 *Yearbook of World Energy Statistics;* population (except as noted): *The World Almanac and Book of Facts* – 1982.

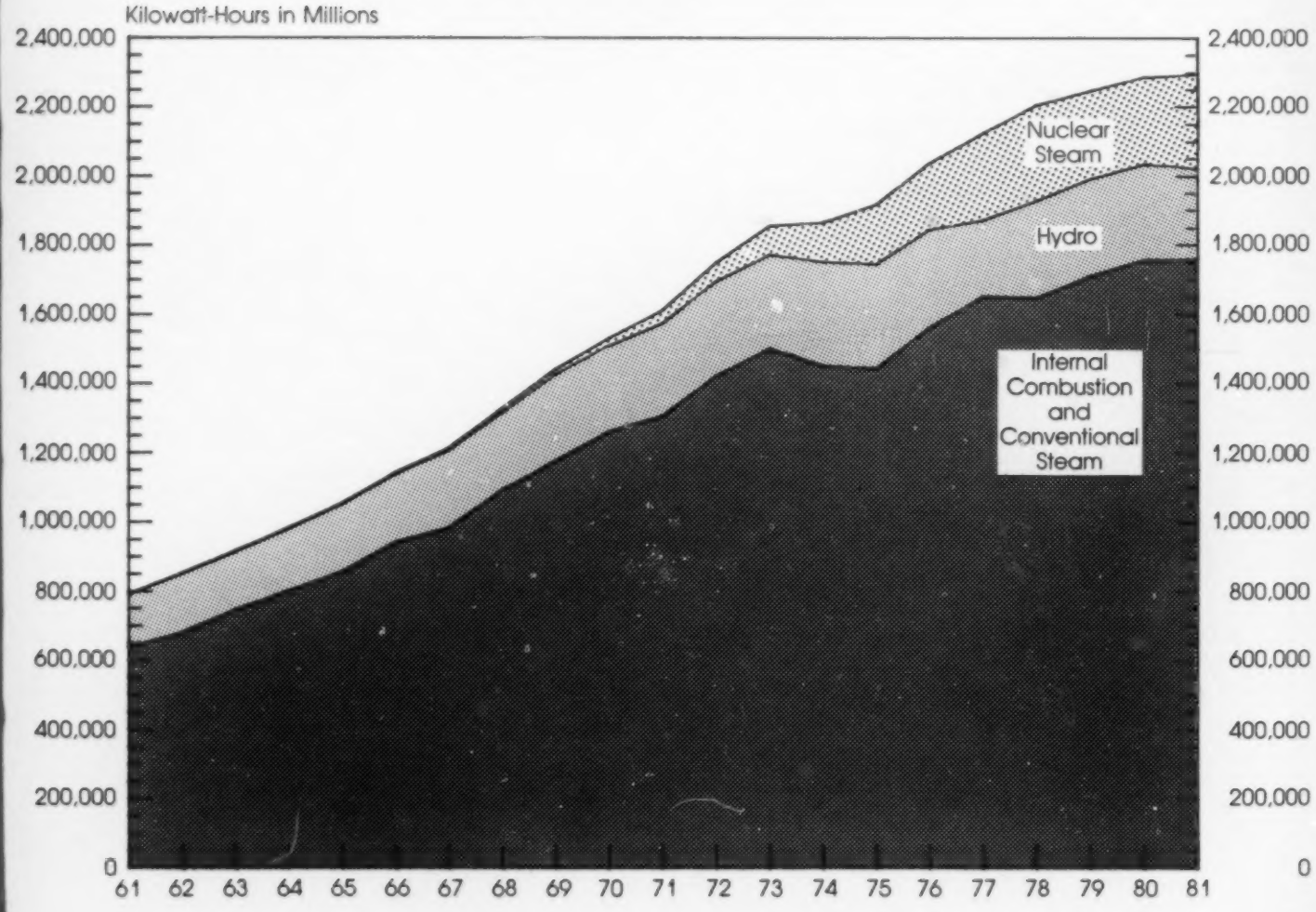
Chart II-B
WORLD GENERATING CAPACITY
SIX LARGEST COUNTRIES – 1980



*Hydro
Based on Table 10, as shown above.
Source: 1980 United Nation's Yearbook of World Energy Statistics.

GENERATION
SECTION III

Chart III-A
GENERATION BY TYPE OF PRIME MOVER
TOTAL ELECTRIC UTILITY INDUSTRY

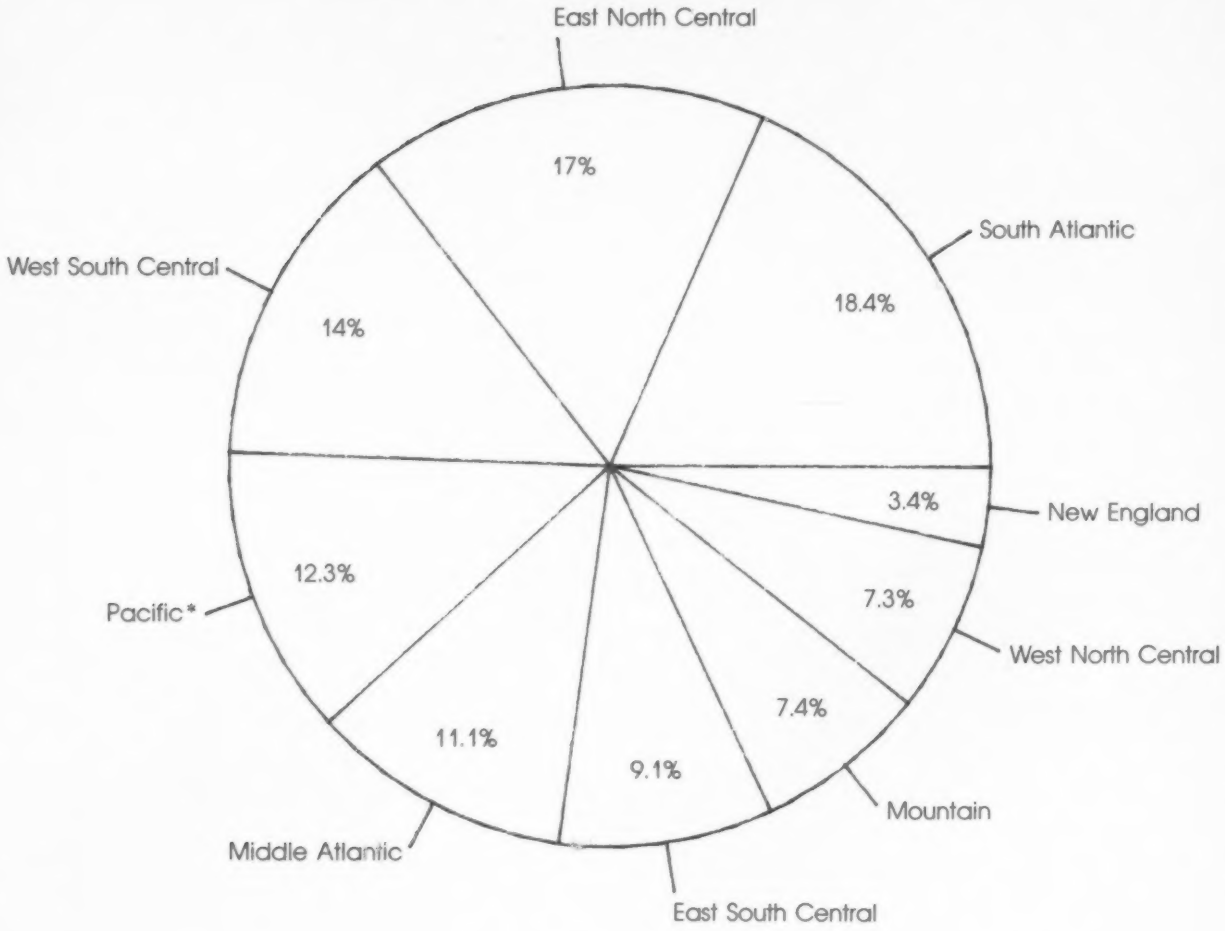


Based on Table 12, page 20.
Source: Energy Information Administration, Form 4.

Chart III-B

GENERATION BY CENSUS DIVISIONS

TOTAL ELECTRIC UTILITY INDUSTRY
PERCENT OF MEGAWATT-HOURS: 1981



*Includes Alaska and Hawaii
Based on Table 15, page 24.
Source: Energy Information Administration, Form 4.

TABLE 12
GENERATION – TOTAL ELECTRIC UTILITY INDUSTRY*
BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATT-HOURS IN MILLIONS

Year	Total Electric Utility Industry	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
TOTAL (Generation by All Types of Prime Mover)							
1981	**2,294,786**	**1,785,524**	**73,298**	**435,964**	**80,657**	**232,219**	**123,088**
1980	2,286,414	1,782,933	63,550	439,931	86,579	235,051	118,301
1979	2,247,359	1,756,170	54,404	436,785	87,265	235,570	113,950
1978	2,206,313	1,721,163	48,717	436,433	89,700	235,257	111,476
1977	2,124,166	1,684,084	44,884	395,198	83,382	213,633	98,183
1976	2,037,674	1,582,029	41,223	414,422	78,176	236,024	100,222
1975	1,917,619	1,486,844	35,328	395,447	81,518	221,226	92,703
1974	1,866,436	1,442,114	33,844	390,478	78,677	219,821	91,980
1973	1,856,216	1,448,860	35,127	372,229	80,872	211,715	79,642
1972	1,749,637	1,358,929	31,714	358,994	78,931	206,668	73,395
1971	1,612,589	1,248,596	27,227	336,766	72,609	194,462	69,695
1970	1,531,609	1,183,190	23,459	324,960	71,394	185,753	67,813
1969	1,442,182	1,102,162	17,513	322,507	69,614	183,245	69,648
1968	1,329,443	1,019,313	14,140	295,990	63,804	170,834	61,352
1967	1,214,365	928,439	12,389	273,537	57,788	162,399	53,350
1966	1,144,350	880,837	11,175	252,338	52,627	153,067	46,644
1965	1,055,252	809,474	8,571	237,207	49,940	145,231	42,036
1964	983,990	756,183	7,934	219,873	50,263	129,936	39,674
1963	916,793	701,253	6,949	208,591	46,293	124,340	37,958
1962	852,314	651,016	6,063	195,235	41,688	115,776	37,771
1961	792,039	604,883	5,241	181,915	38,753	112,177	30,985
HYDRO (Generation of Generators Driven by Water Wheels and Turbines)							
1981	**260,706**	**61,696**	**230**	**198,780**	**13,697**	**128,689**	**56,394**
1980	276,039	70,500	267	205,272	15,603	131,909	57,760
1979	279,790	74,105	244	205,441	13,270	137,212	54,959
1978	280,432	72,381	275	207,776	14,889	136,804	56,083
1977	220,446	55,343	220	164,883	8,572	111,951	44,360
1976	283,734	68,034	221	215,479	14,444	144,218	56,817
1975	300,065	81,524	251	218,290	16,619	142,943	58,728
1974	300,928	81,204	197	219,527	17,218	137,882	64,427
1973	271,634	77,451	229	193,954	13,439	123,148	57,367
1972	272,626	76,820	220	195,586	15,152	126,328	54,106
1971	266,314	76,521	243	189,550	14,765	121,573	53,212
1970	247,456	70,587	214	176,655	14,453	110,695	51,507
1969	250,193	74,833	215	175,145	15,494	105,687	53,964
1968	222,491	67,201	239	155,051	13,043	94,874	47,134
1967	221,518	72,072	223	149,223	10,602	96,228	42,393
1966	194,756	62,827	214	131,715	8,106	86,260	37,349
1965	193,851	67,366	281	126,204	8,580	82,769	34,855
1964	177,073	60,323	219	116,531	8,460	75,771	32,300
1963	165,755	59,439	213	106,103	7,477	68,494	30,132
1962	168,283	62,786	225	105,272	6,215	68,276	30,781
1961	151,850	56,012	224	95,614	6,229	65,039	24,346
CONVENTIONAL STEAM (Generation of Generators Driven by Steam Engines and Turbines)							
1981	**1,758,640**	**1,492,059**	**72,612**	**193,969**	**62,409**	**80,714**	**50,846**
1980	1,755,634	1,499,918	62,803	192,913	63,899	83,715	45,299
1979	1,708,256	1,472,652	53,609	181,995	65,100	77,948	38,947
1978	1,644,756	1,415,266	47,887	181,603	66,212	81,535	33,856
1977	1,648,105	1,422,684	44,193	181,228	65,402	83,202	32,624
1976	1,557,647	1,346,179	38,409	173,059	57,547	87,584	27,928
1975	1,439,374	1,249,623	33,647	156,104	57,958	75,549	22,597
1974	1,445,808	1,261,009	32,887	151,912	56,605	75,640	19,667
1973	1,494,901	1,292,888	34,108	167,905	62,422	88,240	17,243
1972	1,416,218	1,229,998	30,713	155,507	58,814	80,324	16,369
1971	1,301,960	1,135,674	26,245	140,041	53,246	72,866	13,929
1970	1,256,294	1,092,564	22,610	141,120	52,380	75,048	13,692
1969	1,172,481	1,016,361	16,760	139,360	49,800	77,544	12,016
1968	1,089,239	942,927	13,332	132,980	46,744	75,927	10,309
1967	980,336	850,541	11,434	118,361	43,292	66,136	8,933
1966	938,910	813,329	10,104	115,477	40,405	66,769	8,303
1965	852,655	738,319	7,401	106,935	37,333	62,419	7,183
1964	798,564	692,416	6,855	99,293	37,891	54,123	7,279
1963	742,780	638,431	5,915	98,434	34,893	55,794	7,747
1962	676,956	585,724	5,101	86,131	31,685	47,458	6,988
1961	633,872	546,954	4,313	82,605	28,871	47,096	6,638

See page 21 for footnotes.

TABLE 12 (continued)
GENERATION – TOTAL ELECTRIC UTILITY INDUSTRY*
BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATT-HOURS IN MILLIONS

Year	Total Electric Utility Industry	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
NUCLEAR STEAM (Generation of Generators Driven by Nuclear Reactors)							
1981	**272,681**	**231,197**	**241**	**41,243**	**2,585**	**22,810**	**15,848**
1980	251,121	211,831	214	39,076	4,426	19,413	15,237
1979	255,155	208,788	201	46,166	5,729	20,402	20,035
1978	276,403	232,742	174	43,487	5,046	16,911	21,530
1977	250,882	205,257	89	45,536	5,865	18,473	21,198
1976	191,107	167,098	2,157	21,852	2,161	4,214	15,477
1975	172,506	154,985	951	16,570	2,470	2,722	11,378
1974	113,727	99,042	313	14,372	198	6,289	7,885
1973	83,334	77,790	199	5,345	–	314	5,031
1972	54,092	50,933	240	2,919	–	–	2,919
1971	38,106	35,357	196	2,553	–	–	2,553
1970	21,797	19,063	120	2,614	–	–	2,614
1969	13,928	10,261	–	3,667	–	–	3,667
1968	12,528	8,611	15	3,902	–	–	3,902
1967	7,655	5,499	141	2,015	–	–	2,015
1966	5,520	4,400	129	991	2	–	989
1965	3,657	3,497	143	17	22	–	(5)
1964	3,343	3,179	56	108	17	–	91
1963	3,212	3,136	1	75	–	–	75
1962	2,270	2,270	–	–	–	–	–
1961	1,692	1,692	–	–	–	–	–
INTERNAL COMBUSTION (Generation of Generators Driven by Internal Combustion Engines)							
1981	**2,759**	**572**	**215**	**1,972**	**1,966**	**6**	**–**
1980	3,620	684	266	2,670	2,651	14	5
1979	4,158	625	350	3,183	3,166	8	9
1978	4,722	774	381	3,567	3,553	7	7
1977	4,733	800	382	3,551	3,543	7	1
1976	5,186	718	436	4,032	4,024	8	–
1975	5,674	712	479	4,483	4,471	12	–
1974	5,973	859	447	4,667	4,656	10	1
1973	6,347	731	591	5,025	5,011	13	1
1972	6,701	1,178	541	4,982	4,965	16	1
1971	6,209	1,044	543	4,622	4,598	23	1
1970	6,062	976	515	4,571	4,561	10	–
1969	5,580	707	538	4,335	4,320	14	1
1968	5,185	574	554	4,057	4,017	33	7
1967	4,856	327	591	3,938	3,894	35	9
1966	5,164	281	728	4,155	4,114	38	3
1965	5,089	292	746	4,051	4,005	43	3
1964	5,010	265	804	3,941	3,895	42	4
1963	5,046	247	820	3,979	3,923	52	4
1962	4,805	236	737	3,832	3,788	42	2
1961	4,625	225	704	3,696	3,653	42	1

*Alaska and Hawaii included since 1963.
( ) Denotes negative figure.
Source: Energy Information Administration, Form 4.

TABLE 13
GENERATION PER KILOWATT OF INSTALLED NAME PLATE CAPACITY
TOTAL ELECTRIC UTILITY INDUSTRY
BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATT-HOURS

Year	Total Electric Utility Industry	Investor-Owned	Cooperatives	Government-Owned	Total Electric Utility Industry	Investor-Owned	Cooperatives	Government-Owned
	TOTAL				HYDRO			
1981	**3,676**	**3,689**	**4,334**	**3,532**	**3,396**	**2,541**	**3,459**	**3,792**
1980	3,773	3,789	4,344	3,641	3,639	2,929	3,985	3,968
1979	3,816	3,827	4,272	3,725	3,823	3,103	3,642	4,173
1978	3,872	3,859	4,326	3,877	4,013	3,080	4,104	4,486
1977	3,892	3,945	4,308	3,646	3,230	2,391	3,284	3,660
1976	3,920	3,884	4,320	4,024	4,244	2,942	3,299	4,935
1975	3,895	3,836	4,254	4,102	4,634	3,556	4,149	5,226
1974	4,075	3,991	4,585	4,371	4,802	3,649	3,582	5,439
1973	4,427	4,385	5,021	4,545	4,597	3,788	4,164	5,027
1972	4,557	4,510	5,210	4,693	4,855	4,022	4,074	5,287
1971	4,541	4,532	5,122	4,534	4,800	4,035	4,418	5,198
1970	4,681	4,707	4,949	4,570	4,591	3,785	3,821	5,018
1969	4,772	4,783	4,518	4,749	4,815	4,069	3,805	5,226
1968	4,745	4,804	4,382	4,571	4,482	3,685	4,193	4,946
1967	4,697	4,770	4,289	4,482	4,759	4,176	3,912	5,105
1966	4,729	4,850	4,411	4,363	4,388	3,869	3,722	4,690
1965	4,604	4,689	3,963	4,360	4,510	4,292	4,845	4,635
1964	4,547	4,637	4,079	4,278	4,298	4,033	3,776	4,450
1963	4,561	4,623	4,070	4,380	4,270	4,207	3,822	4,307
1962	4,586	4,628	4,064	4,466	4,622	4,623	4,592	4,620
1961	4,543	4,562	3,696	4,512	4,476	4,168	4,667	4,679
	STEAM				INTERNAL COMBUSTION			
1981	**3,748**	**3,764**	**4,416**	**3,476**	**494**	**304**	**620**	**589**
1980	3,825	3,849	4,433	3,528	655	372	764	800
1979	3,849	3,881	4,381	3,527	753	347	903	956
1978	3,885	3,916	4,446	3,578	872	457	992	1,069
1977	4,022	4,048	4,423	3,777	893	487	1,129	1,070
1976	3,906	3,956	4,437	3,478	1,000	454	1,313	1,233
1975	3,815	3,868	4,375	3,358	1,127	479	1,423	1,396
1974	3,995	4,029	4,756	3,629	1,206	592	1,294	1,478
1973	4,441	4,444	5,200	4,298	1,300	478	1,723	1,668
1972	4,551	4,563	5,440	4,318	1,434	778	1,577	1,769
1971	4,540	4,589	5,377	4,063	1,406	769	1,578	1,702
1970	4,751	4,803	5,234	4,321	1,417	751	1,510	1,733
1969	4,820	4,869	4,819	4,493	1,364	593	1,575	1,695
1968	4,862	4,934	4,734	4,425	1,330	535	1,583	1,639
1967	4,742	4,851	4,671	4,096	1,326	364	1,672	1,633
1966	4,864	4,967	4,816	4,247	1,502	368	2,074	1,789
1965	4,682	4,749	4,288	4,291	1,523	390	2,159	1,802
1964	4,664	4,720	4,467	4,320	1,526	358	2,365	1,790
1963	4,690	4,688	4,463	4,719	1,597	316	2,491	1,875
1962	4,638	4,651	4,546	4,553	1,599	350	2,296	1,906
1961	4,622	4,613	4,096	4,595	1,601	337	2,220	1,941

Source: Energy Information Administration data as shown in Tables 2 and 12.

TABLE 14
GENERATION IN PERCENT OF TOTAL — TOTAL ELECTRIC UTILITY INDUSTRY
BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR

Year	Investor-Owned	Co-operatives	Government-Owned	Total	Investor-Owned	Co-operatives	Government-Owned	Total	Investor-Owned	Co-operatives	Government-Owned
	TOTAL			HYDRO				CONVENTIONAL STEAM			
1981	**77.8**	**3.2**	**19.0**	**11.4**	**2.7**	**0.0**	**8.7**	**76.6**	**65.0**	**3.2**	**8.4**
1980	78.0	2.8	19.2	12.1	3.1	0.0	9.0	76.8	65.6	2.8	8.4
1979	78.1	2.4	19.5	12.4	3.3	0.0	9.1	76.0	65.5	2.4	8.1
1978	78.0	2.2	19.8	12.7	3.3	0.0	9.4	74.6	64.2	2.2	8.2
1977	79.3	2.1	18.6	10.4	2.6	0.0	7.8	77.6	67.0	2.1	8.5
1976	77.7	2.0	20.3	13.9	3.3	0.0	10.6	76.4	66.1	1.9	8.4
1975	77.5	1.9	20.6	15.6	4.2	0.0	11.4	75.1	65.2	1.8	8.1
1974	77.3	1.8	20.9	16.1	4.4	0.0	11.7	77.5	67.6	1.8	8.1
1973	78.1	1.9	20.0	14.6	4.2	0.0	10.4	80.6	69.7	1.9	9.0
1972	77.7	1.8	20.5	15.6	4.4	0.0	11.2	80.9	70.3	1.8	8.8
1971	77.4	1.7	20.9	16.5	4.7	0.0	11.8	80.7	70.4	1.7	8.6
1970	77.3	1.5	21.2	16.2	4.7	0.0	11.5	82.0	71.3	1.5	9.2
1969	76.4	1.2	22.4	17.3	5.2	0.0	12.1	81.3	70.4	1.2	9.7
1968	76.7	1.0	22.3	16.8	5.1	0.0	11.7	81.9	70.9	1.0	10.0
1967	76.5	1.0	22.5	18.2	5.9	0.0	12.3	80.7	70.1	0.9	9.7
1966	77.0	1.0	22.0	17.0	5.5	0.0	11.5	82.1	71.1	0.9	10.1
1965	76.7	0.8	22.5	18.4	6.4	0.0	12.0	80.8	70.0	0.7	10.1
1964	76.8	0.8	22.4	18.0	6.1	0.0	11.9	81.2	70.4	0.7	10.1
1963	76.5	0.7	22.8	18.1	6.5	0.0	11.6	81.1	69.7	0.6	10.8
1962	76.4	0.7	22.9	19.7	7.4	0.0	12.3	79.4	68.7	0.6	10.1
1961	76.4	0.6	23.0	19.2	7.1	0.0	12.1	80.0	69.1	0.5	10.4

Year	Total	Investor-Owned	Co-operatives	Government-Owned	Total	Investor-Owned	Co-operatives	Government-Owned
	NUCLEAR STEAM				INTERNAL COMBUSTION			
1981	**11.9**	**10.1**	**0.0**	**1.8**	**0.1**	**0.0**	**0.0**	**0.1**
1980	11.0	9.3	0.0	1.7	0.1	0.0	0.0	0.1
1979	11.4	9.3	0.0	2.1	0.2	0.0	0.0	0.2
1978	12.5	10.5	0.0	2.0	0.2	0.0	0.0	0.2
1977	11.8	9.7	0.0	2.1	0.2	0.0	0.0	0.2
1976	9.4	8.2	0.1	1.1	0.3	0.1	0.0	0.2
1975	9.0	8.0	0.1	0.9	0.3	0.1	0.0	0.2
1974	6.1	5.3	0.0	0.8	0.3	0.0	0.0	0.3
1973	4.5	4.2	0.0	0.3	0.3	0.0	0.0	0.3
1972	3.1	2.9	0.0	0.2	0.4	0.1	0.0	0.3
1971	2.4	2.2	0.0	0.2	0.4	0.1	0.0	0.3
1970	1.4	1.2	0.0	0.2	0.4	0.1	0.0	0.3
1969	1.0	0.7	0.0	0.3	0.4	0.1	0.0	0.3
1968	1.0	0.7	0.0	0.3	0.3	0.0	0.0	0.3
1967	0.7	0.5	0.0	0.2	0.4	0.0	0.1	0.3
1966	0.5	0.4	0.0	0.1	0.4	0.0	0.1	0.3
1965	0.3	0.3	0.0	0.0	0.5	0.0	0.1	0.4
1964	0.3	0.3	0.0	0.0	0.5	0.0	0.1	0.4
1963	0.3	0.3	0.0	0.0	0.5	0.0	0.1	0.4
1962	0.3	0.3	0.0	0.0	0.6	0.0	0.1	0.5
1961	0.2	0.2	0.0	0.0	0.6	0.0	0.1	0.5

Source: Energy Information Administration data as shown in Table 12.

TABLE 15
GENERATION – TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
1980 and 1981 – KILOWATT-HOURS IN MILLIONS

Division/State	Total Electric Utility Industry		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980
Total United States	**2,294,786**	**2,286,414**	**260,706**	**276,039**	**1,758,640**	**1,755,634**	**272,681**	**251,121**	**2,759**	**3,620**
Maine	9,253	7,901	1,883	1,443	2,152	2,034	5,212	4,404	6	20
New Hampshire	5,563	5,971	1,207	871	4,356	5,100	–	–	–	–
Vermont	4,566	3,821	931	746	64	92	3,569	2,979	2	4
Massachusetts	32,933	34,849	369	101	28,119	31,351	4,331	3,232	114	165
Rhode Island	820	963	–	1	812	950	–	–	8	12
Connecticut	23,777	24,699	252	251	10,848	12,611	12,674	11,835	3	2
New England	**76,912**	**78,204**	**4,642**	**3,413**	**46,351**	**52,138**	**25,786**	**22,450**	**133**	**203**
New York	105,829	108,599	25,660	26,239	62,682	63,045	17,446	19,277	41	38
New Jersey	31,735	29,427	(233)	(285)	20,293	22,085	11,675	7,627	–	–
Pennsylvania	116,599	122,511	661	735	101,651	109,674	14,277	12,093	10	9
Middle Atlantic	**254,163**	**260,537**	**26,088**	**26,689**	**184,626**	**194,804**	**43,398**	**38,997**	**51**	**47**
Ohio	111,747	110,243	6	6	107,318	108,071	4,407	2,119	16	47
Indiana	67,769	70,618	510	475	67,234	70,104	–	–	25	39
Illinois	98,868	103,416	117	122	69,132	75,382	29,483	27,741	136	171
Michigan	75,600	74,847	1,125	1,083	57,208	57,569	17,066	15,891	201	304
Wisconsin	37,053	37,832	1,882	1,851	25,449	26,033	9,719	9,912	3	36
East North Central	**391,037**	**396,956**	**3,640**	**3,537**	**326,341**	**337,159**	**60,675**	**55,663**	**381**	**597**
Minnesota	31,502	31,537	795	642	20,474	20,769	10,187	10,027	46	99
Iowa	22,618	21,799	980	945	19,431	18,258	2,204	2,563	3	33
Missouri	48,798	48,928	669	559	48,035	48,169	–	–	94	200
North Dakota	16,061	15,828	2,250	2,513	13,810	13,314	–	–	1	1
South Dakota	7,952	8,631	5,274	5,786	2,678	2,844	–	–	–	1
Nebraska	16,058	16,309	1,197	1,336	8,812	9,080	5,988	5,783	61	110
Kansas	24,538	25,130	8	8	23,925	24,425	–	–	605	697
West North Central	**167,527**	**168,162**	**11,173**	**11,789**	**137,165**	**136,859**	**18,379**	**18,373**	**810**	**1,141**
Delaware	8,321	6,662	–	–	8,321	6,662	–	–	–	–
Maryland	30,143	32,173	1,426	1,269	17,134	19,847	11,523	10,947	60	110
District of Columbia	358	699	–	–	358	699	–	–	–	–
Virginia	37,483	34,304	337	864	19,314	21,947	17,819	11,466	13	27
West Virginia	73,539	70,795	400	423	73,139	70,372	–	–	–	–
North Carolina	72,008	72,069	2,930	5,485	62,832	60,809	6,246	5,775	–	–
South Carolina	41,248	41,860	1,209	2,978	22,711	21,478	17,328	17,404	–	–
Georgia	61,923	63,312	2,274	4,369	52,414	50,507	7,235	8,436	–	–
Florida	98,994	95,901	180	215	84,035	78,594	14,448	16,737	331	355
South Atlantic	**424,017**	**417,775**	**8,756**	**15,603**	**340,258**	**330,915**	**74,599**	**70,765**	**404**	**492**
Kentucky	60,090	57,104	2,598	2,939	57,492	54,165	–	–	–	–
Tennessee	58,958	60,214	5,916	8,765	48,338	50,930	4,704	519	–	–
Alabama	74,770	78,297	6,012	9,386	45,115	45,413	23,643	23,498	–	–
Mississippi	14,796	18,500	–	–	14,796	18,500	–	–	–	–
East South Central	**208,614**	**214,115**	**14,526**	**21,090**	**165,741**	**169,008**	**28,347**	**24,017**	–	–
Arkansas	25,308	19,684	1,237	1,692	14,995	10,149	9,075	7,833	1	10
Louisiana	44,111	45,739	–	–	44,074	45,670	–	–	37	69
Oklahoma	44,076	44,634	1,124	1,315	42,851	43,188	–	–	101	131
Texas	207,260	202,991	1,148	981	205,968	201,835	–	–	144	175
West South Central	**320,755**	**313,048**	**3,509**	**3,988**	**307,888**	**300,842**	**9,075**	**7,833**	**283**	**385**
Montana	16,591	15,497	11,322	9,966	5,269	5,531	–	–	–	–
Idaho	9,509	9,513	9,508	9,509	1	4	–	–	–	–
Wyoming	26,423	22,354	843	1,109	25,580	21,243	–	–	–	2
Colorado	25,397	23,637	1,396	1,716	23,242	21,227	749	667	10	27
New Mexico	23,012	24,675	88	94	22,896	24,507	–	–	28	74
Arizona	40,577	36,876	6,790	9,821	33,787	27,055	–	–	–	–
Utah	11,760	12,114	623	823	11,133	11,286	–	–	4	5
Nevada	15,725	14,123	1,729	2,372	13,996	11,751	–	–	–	–
Mountain	**168,994**	**158,789**	**32,299**	**35,410**	**135,904**	**122,604**	**749**	**667**	**42**	**108**
Washington	102,648	92,325	93,571	82,982	7,035	7,302	2,042	2,041	–	–
Oregon	40,387	36,558	32,134	30,193	1,829	970	6,424	5,395	–	–
California	129,992	140,348	29,764	40,786	96,976	94,523	3,207	4,920	45	119
Pacific	**273,027**	**269,231**	**155,469**	**153,961**	**105,840**	**102,795**	**11,673**	**12,356**	**45**	**119**
Alaska	3,182	3,087	591	539	2,317	2,283	–	–	274	265
Hawaii	6,558	6,510	13	20	6,209	6,227	–	–	336	263
Alaska & Hawaii	**9,740**	**9,597**	**604**	**559**	**8,526**	**8,510**	**–**	**–**	**610**	**528**

Source: Energy Information Administration, Form 4.

TABLE 16
GENERATION – INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
1980 and 1981 – KILOWATT-HOURS IN MILLIONS

Division/State	Total Investor-Owned Utilities		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980
Total United States	**1,785,524**	**1,782,933**	**61,696**	**70,500**	**1,492,059**	**1,499,918**	**231,197**	**211,831**	**572**	**684**
Maine	9,243	7,884	1,875	1,436	2,152	2,034	5,212	4,404	4	10
New Hampshire	5,563	5,971	1,207	871	4,356	5,100	–	–	–	–
Vermont	4,448	3,691	874	697	3	11	3,569	2,979	2	4
Massachusetts	32,565	34,331	325	63	27,829	30,923	4,331	3,232	80	113
Rhode Island	820	962	–	–	812	950	–	–	8	12
Connecticut	23,744	24,664	241	242	10,828	12,587	12,674	11,835	1	–
New England	**76,383**	**77,503**	**4,522**	**3,309**	**45,980**	**51,605**	**25,786**	**22,450**	**95**	**139**
New York	74,391	75,162	3,721	3,179	61,038	60,115	9,628	11,864	4	4
New Jersey	31,509	29,130	(234)	(287)	20,068	21,790	11,675	7,627	–	–
Pennsylvania	116,589	122,496	661	735	101,641	109,659	14,277	12,093	10	9
Middle Atlantic	**222,489**	**226,788**	**4,148**	**3,627**	**182,747**	**191,564**	**35,580**	**31,584**	**14**	**13**
Ohio	110,709	109,201	–	–	106,297	107,058	4,407	2,119	5	24
Indiana	65,374	68,237	509	474	64,863	67,759	–	–	2	4
Illinois	95,765	100,109	65	65	66,216	72,301	29,483	27,741	1	2
Michigan	71,266	70,358	897	855	53,294	53,590	17,066	15,891	9	22
Wisconsin	32,817	33,314	1,702	1,673	21,637	21,943	9,478	9,698	–	–
East North Central	**375,931**	**381,219**	**3,173**	**3,067**	**312,307**	**322,651**	**60,434**	**55,449**	**17**	**52**
Minnesota	30,368	30,257	785	630	19,396	19,600	10,187	10,027	–	–
Iowa	21,510	20,387	969	932	18,337	16,887	2,204	2,563	–	5
Missouri	36,568	35,881	493	254	36,075	35,625	–	–	–	2
North Dakota	1,711	592	–	–	1,710	591	–	–	1	1
South Dakota	2,679	2,845	1	–	2,678	2,844	–	–	–	1
Nebraska	–	–	–	–	–	–	–	–	–	–
Kansas	21,001	21,259	8	8	20,993	21,251	–	–	–	–
West North Central	**113,837**	**111,221**	**2,256**	**1,824**	**99,189**	**96,798**	**12,391**	**12,590**	**1**	**9**
Delaware	7,703	6,166	–	–	7,703	6,166	–	–	–	–
Maryland	30,089	32,076	1,426	1,269	17,134	19,847	11,523	10,947	6	13
District of Columbia	358	699	–	–	358	699	–	–	–	–
Virginia	37,435	33,736	134	381	19,277	21,872	17,819	11,466	5	17
West Virginia	73,539	70,795	400	423	73,139	70,372	–	–	–	–
North Carolina	71,329	70,685	2,286	4,139	62,797	60,771	6,246	5,775	–	–
South Carolina	31,697	33,131	457	1,393	13,912	14,334	17,328	17,404	–	–
Georgia	60,984	61,148	1,353	2,220	52,396	50,492	7,235	8,436	–	–
Florida	84,887	81,978	–	–	70,438	65,239	14,448	16,737	1	2
South Atlantic	**397,821**	**390,414**	**6,056**	**9,825**	**317,154**	**309,792**	**74,599**	**70,765**	**12**	**32**
Kentucky	25,189	22,987	481	451	24,708	22,536	–	–	–	–
Tennessee	473	831	473	831	–	–	–	–	–	–
Alabama	37,003	39,120	2,611	4,334	28,855	30,182	5,537	4,604	–	–
Mississippi	12,434	16,265	–	–	12,434	16,265	–	–	–	–
East South Central	**75,099**	**79,203**	**3,565**	**5,616**	**65,997**	**68,983**	**5,537**	**4,604**	**–**	**–**
Arkansas	23,720	17,319	140	99	14,505	9,387	9,075	7,833	–	–
Louisiana	38,312	41,393	–	–	38,305	41,350	–	–	7	43
Oklahoma	38,935	40,010	–	–	38,923	39,996	–	–	12	14
Texas	180,696	178,134	60	55	180,627	178,078	–	–	9	1
West South Central	**281,663**	**276,856**	**200**	**154**	**272,360**	**268,811**	**9,075**	**7,833**	**28**	**58**
Montana	10,549	10,476	5,280	4,945	5,269	5,531	–	–	–	–
Idaho	6,385	6,679	6,384	6,675	1	4	–	–	–	–
Wyoming	20,777	21,242	–	–	20,777	21,240	–	–	–	2
Colorado	12,990	13,035	(24)	10	12,263	12,354	749	667	2	4
New Mexico	22,485	24,098	–	–	22,474	24,040	–	–	11	58
Arizona	9,125	6,690	35	32	9,090	6,658	–	–	–	–
Utah	11,253	11,543	145	284	11,108	11,259	–	–	–	–
Nevada	14,048	11,812	52	61	13,996	11,751	–	–	–	–
Mountain	**107,612**	**105,575**	**11,872**	**12,007**	**94,978**	**92,837**	**749**	**667**	**13**	**64**
Washington	11,293	11,507	4,258	4,205	7,035	7,302	–	–	–	–
Oregon	14,864	13,423	6,731	7,218	1,709	810	6,424	5,395	–	–
California	101,882	102,628	14,850	19,581	86,394	82,538	622	494	16	15
Pacific	**128,039**	**127,558**	**25,839**	**31,004**	**95,138**	**90,650**	**7,046**	**5,889**	**16**	**15**
Alaska	92	86	52	47	–	–	–	–	40	39
Hawaii	6,558	6,510	13	20	6,209	6,227	–	–	336	263
Alaska & Hawaii	**6,650**	**6,596**	**65**	**67**	**6,209**	**6,227**	**–**	**–**	**376**	**302**

Source: Energy Information Administration, Form 4.

TABLE 17
GENERATION – TOTAL ELECTRIC UTILITY INDUSTRY AND INVESTOR-OWNED ELECTRIC UTILITIES
BY MONTH AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
1978–1981 – KILOWATT-HOURS IN MILLIONS

	Total Electric Utility Industry					Investor-Owned Electric Utilities				
Year – Month	Total	Hydro	Conventional Steam	Nuclear Steam	Internal Combustion	Total	Hydro	Conventional Steam	Nuclear Steam	Internal Combustion
YEAR – 1981										
January	206,440	22,361	160,057	23,787	235	160,663	4,721	136,538	19,330	74
February	179,613	21,099	136,711	21,595	208	140,656	5,576	116,577	18,456	47
March	185,552	20,572	142,779	22,004	197	145,824	5,509	122,102	18,165	48
April	172,545	20,723	130,977	20,646	199	134,957	5,999	111,991	16,922	45
May	177,806	24,081	133,795	19,723	207	135,722	5,697	113,027	16,953	45
June	202,703	26,370	154,906	21,166	261	155,322	5,877	131,226	18,170	49
July	220,374	25,133	171,816	23,080	345	168,830	4,640	145,246	18,885	59
August	210,403	21,615	161,559	26,946	283	163,033	3,887	135,474	23,623	49
September	186,839	17,822	144,387	24,398	232	147,532	4,053	122,185	21,253	41
October	181,351	18,088	142,507	20,556	200	144,268	4,581	121,541	18,109	37
November	175,569	18,963	133,643	22,783	180	137,858	5,026	113,449	19,347	36
December	195,591	23,879	145,503	25,997	212	150,859	6,130	122,703	21,984	42
Total	**2,294,786**	**260,706**	**1,758,640**	**272,681**	**2,759**	**1,785,524**	**61,696**	**1,492,059**	**231,197**	**572**
YEAR – 1980										
January	200,005	25,278	154,629	19,746	352	155,817	6,907	132,169	16,675	66
February	188,715	21,378	147,728	19,277	332	148,462	5,728	125,690	16,981	63
March	187,465	24,332	142,769	20,039	325	146,235	6,949	121,630	17,578	78
April	168,721	25,748	123,913	18,794	266	131,284	8,280	107,227	15,733	44
May	175,734	28,865	128,248	18,385	236	133,351	7,701	110,427	15,182	41
June	189,429	27,656	143,168	18,322	283	143,473	6,235	122,360	14,833	45
July	216,776	24,469	170,825	21,024	458	168,424	5,091	145,525	17,729	79
August	215,393	20,431	170,233	24,333	396	169,610	4,255	144,780	20,508	67
September	191,484	18,491	149,142	23,572	279	150,724	4,377	126,455	19,847	45
October	178,556	17,866	135,961	24,510	219	142,652	4,568	116,852	21,187	45
November	178,550	19,217	138,109	20,984	240	140,768	4,871	118,097	17,745	55
December	195,586	22,308	150,909	22,135	234	152,133	5,538	128,706	17,833	56
Total	**2,286,414**	**276,039**	**1,755,634**	**251,121**	**3,620**	**1,782,933**	**70,500**	**1,499,918**	**211,831**	**684**
YEAR – 1979										
January	209,688	25,021	156,420	27,792	455	164,281	6,744	134,369	23,074	94
February	186,335	21,275	138,752	25,911	397	146,899	5,926	119,747	21,143	83
March	182,850	25,921	132,287	24,335	307	143,054	8,293	115,159	19,559	43
April	169,960	25,389	125,866	18,418	287	132,061	7,999	109,673	14,345	44
May	178,068	28,939	133,803	15,025	301	136,046	7,568	116,067	12,366	45
June	186,679	24,979	145,303	16,065	332	144,758	6,166	125,626	12,922	44
July	202,253	22,761	158,262	20,825	405	158,199	5,128	136,078	16,949	44
August	204,847	21,260	158,959	24,204	424	161,113	4,535	136,428	20,098	52
September	180,750	18,978	139,637	21,804	331	142,722	4,661	119,687	18,328	46
October	179,714	20,167	138,319	20,934	294	141,388	5,339	119,085	16,922	42
November	177,505	22,367	135,568	19,255	315	138,320	5,816	116,320	16,137	47
December	188,710	22,733	145,080	20,587	310	147,329	5,930	124,413	16,945	41
Total	**2,247,359**	**279,790**	**1,708,256**	**255,155**	**4,158**	**1,756,170**	**74,105**	**1,472,652**	**208,788**	**625**
YEAR – 1978										
January	197,830	25,066	146,485	25,833	446	154,622	7,666	125,522	21,331	103
February	173,499	22,211	129,023	21,833	432	136,151	6,389	111,757	17,918	87
March	173,188	24,630	125,709	22,449	400	134,660	6,985	109,539	18,056	80
April	159,739	25,306	116,510	17,580	343	122,353	7,088	101,103	14,087	75
May	175,236	28,757	125,750	20,416	313	133,083	7,981	108,467	16,593	42
June	188,312	25,121	140,613	22,185	393	146,551	6,464	120,592	19,440	55
July	202,677	24,453	152,727	25,007	490	156,752	5,166	129,945	21,576	65
August	206,413	22,185	158,159	25,599	470	162,473	5,260	135,612	21,536	65
September	185,572	21,177	141,791	22,189	415	145,218	4,831	121,673	18,658	56
October	175,802	19,479	132,997	22,997	329	138,717	4,522	114,614	19,535	46
November	176,173	19,953	130,984	24,901	335	138,978	4,651	112,456	21,821	50
December	191,872	22,094	144,008	25,414	356	151,605	5,378	123,986	22,191	50
Total	**2,206,313**	**280,432**	**1,644,756**	**276,403**	**4,722**	**1,721,163**	**72,381**	**1,415,266**	**232,742**	**774**

Source: Energy Information Administration, Form 4.

TABLE 18
INDEX OF WEEKLY ELECTRIC OUTPUT – TOTAL ELECTRIC UTILITY INDUSTRY (EXCLUDING ALASKA AND HAWAII)
SEASONALLY ADJUSTED – 1967 AVERAGE = 100
1971–1981

Week Number	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971
1	180	179	199	184	181	162	154	154	154	131	129
2	189	178	192	184	182	174	152	151	160	136	130
3	197	170	189	184	191	171	162	149	149	136	129
4	185	176	186	182	193	175	158	145	148	139	133
5	182	194	201	193	187	169	155	146	153	138	131
6	191	190	198	185	183	170	158	153	150	143	134
7	192	188	196	180	176	163	159	151	156	143	134
8	176	185	194	183	177	158	154	150	153	139	128
9	187	200	196	187	174	162	156	155	150	141	129
10	193	204	191	186	177	164	164	148	147	139	132
11	192	196	194	176	170	167	162	151	147	142	133
12	198	195	189	170	171	170	157	154	152	140	132
13	195	196	193	170	176	164	156	157	150	141	136
14	189	191	194	173	171	165	159	154	152	142	133
15	193	188	193	174	172	163	159	152	155	145	131
16	195	195	191	180	174	164	157	151	149	145	128
17	195	188	188	177	170	166	155	154	151	143	132
18	198	187	186	177	175	167	157	156	152	142	134
19	193	187	196	180	174	165	156	156	155	142	132
20	192	185	188	181	183	165	153	161	152	143	130
21	188	182	181	182	179	159	161	160	153	144	130
22	192	185	181	187	179	154	158	158	154	143	134
23	198	193	191	183	177	162	154	158	162	149	135
24	204	180	183	178	176	164	148	154	161	142	127
25	205	179	184	179	174	169	159	157	157	140	136
26	200	192	177	188	177	164	159	146	154	140	138
27	194	192	173	175	181	153	158	158	161	134	139
28	202	197	182	179	184	171	151	161	161	145	136
29	195	202	184	187	187	165	148	163	154	152	135
30	194	194	189	185	170	166	159	158	158	150	132
31	185	194	193	178	175	171	162	159	155	144	129
32	192	204	198	183	182	160	157	150	161	141	125
33	198	201	173	193	167	162	159	155	156	146	134
34	186	196	184	185	163	158	156	159	149	148	131
35	188	194	185	180	173	170	159	158	167	145	133
36	197	201	192	185	172	162	158	147	162	139	139
37	187	200	188	193	173	167	156	158	155	149	141
38	193	198	181	197	177	168	152	156	151	153	140
39	189	203	186	183	180	166	151	150	158	149	130
40	195	192	191	186	175	168	152	154	159	145	141
41	194	186	190	184	176	171	158	155	163	148	138
42	194	188	192	185	176	169	160	157	158	152	134
43	194	189	193	185	173	176	158	158	157	148	135
44	193	194	191	185	173	176	159	154	158	150	133
45	188	187	190	182	174	177	156	155	161	148	134
46	188	188	191	186	177	179	161	156	154	152	136
47	192	201	177	194	170	178	161	155	149	152	131
48	187	190	194	181	186	176	166	157	148	151	137
49	184	184	188	187	185	186	163	159	152	156	138
50	189	185	181	192	177	182	164	156	155	158	135
51	196	192	189	184	172	177	169	156	157	152	135
52	198	199	174	184	181	187	171	149	145	146	140
Year	**192**	**191**	**189**	**183**	**177**	**168**	**157**	**154**	**155**	**145**	**133**

Note: Seasonal factors are always based on 52 weeks ending on Saturday. Therefore one week is eliminated in 1972 and 1977, since those years had 53 Saturdays.
The above values are based on EEI Weekly Electric Output Index – (Revised Methodology) dated January, 1958.

TABLE 19
WEEKLY ELECTRIC OUTPUT – TOTAL ELECTRIC UTILITY INDUSTRY (EXCLUDING ALASKA AND HAWAII)
1979–1981 – KILOWATT-HOURS IN MILLIONS

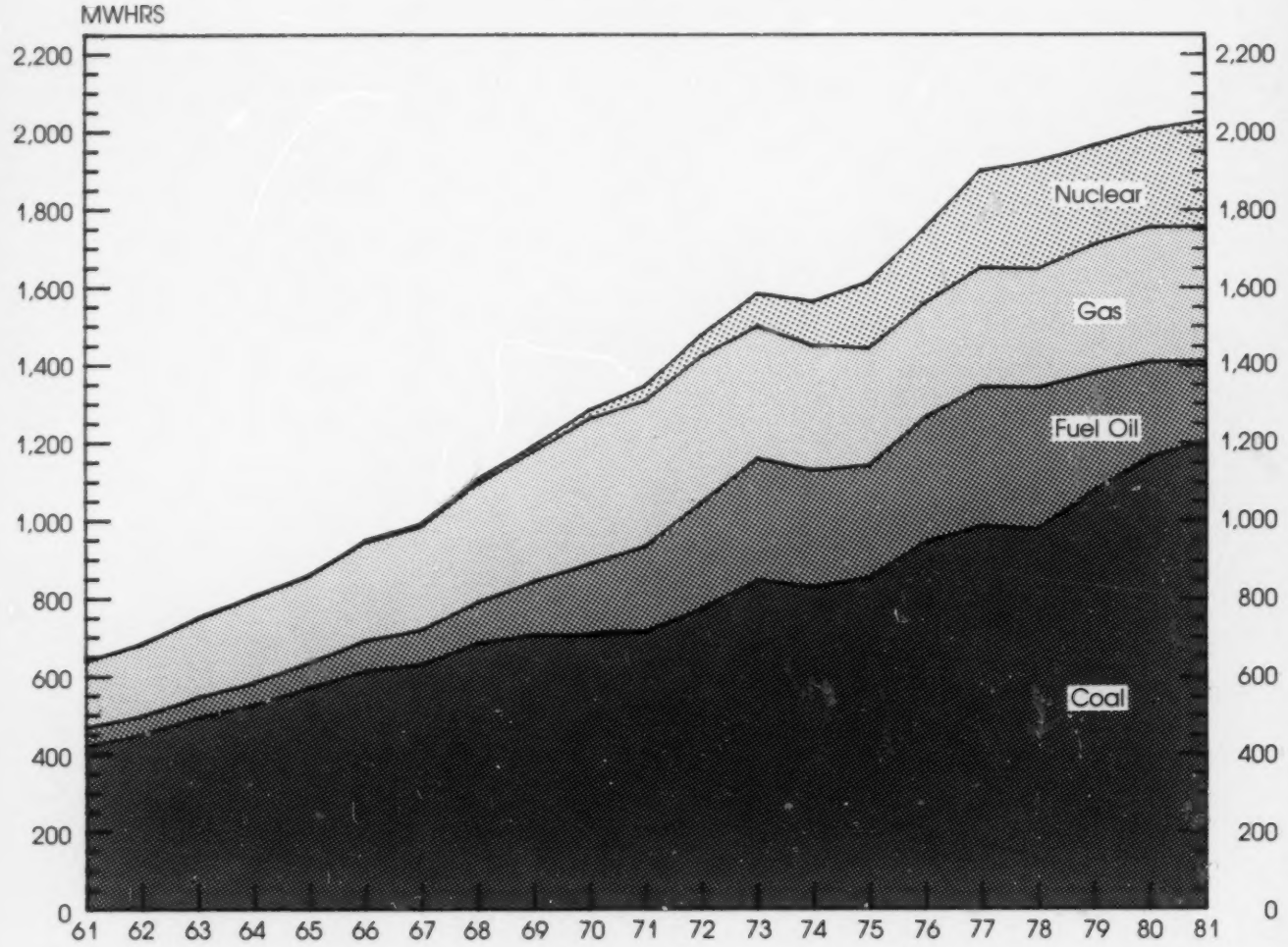
	Week Ended	1981		Week Ended	1980	% Change 81/80		Week Ended	1979	% Change 80/79
Jan.	3	42,727	Jan.	5	42,577	+ 0.4	Jan.	6	46,236	– 7.9
	10	48,796		12	46,196	+ 5.6		13	48,582	– 4.9
	17	49,789		19	43,653	+ 14.1		20	47,294	– 7.7
	24	46,787		26	45,021	+ 3.9		27	46,741	– 3.7
	31	45,556								
Feb.	7	48,526	Feb.	2	47,975	– 5.0	Feb.	3	48,482	– 1.0
	14	47,616		9	47,540	+ 2.1		10	48,460	– 1.9
	21	42,136		16	46,274	+ 2.9		17	47,149	– 1.9
	28	42,427		23	44,076	– 4.4		24	45,270	– 2.6
Mar.	7	43,190	Mar.	1	44,588	– 4.8	Mar.	3	43,475	+ 2.6
	14	42,743		8	44,911	– 3.8		10	41,930	+ 7.1
	21	43,066		15	43,076	– 0.8		17	42,490	+ 1.4
	28	41,692		22	42,125	+ 2.2		24	40,576	+ 3.8
				29	41,877	– 0.4		31	41,260	+ 1.5
Apr.	4	39,964	Apr.	5	40,327	– 0.9	Apr.	7	40,991	– 1.6
	11	40,461		12	39,519	+ 2.4		14	40,488	– 2.4
	18	40,599		19	40,617	0.0		21	39,816	+ 2.0
	25	40,595		26	39,566	+ 2.6		28	39,645	– 0.2
May	2	41,417	May	3	39,475	+ 4.9	May	5	39,522	– 0.1
	9	40,800		10	39,725	+ 2.7		12	41,605	– 4.5
	16	41,045		17	40,025	+ 2.5		19	40,768	– 1.8
	23	41,237		24	40,596	+ 1.6		26	40,818	– 0.5
	30	41,814		31	40,863	+ 2.3				
June	6	44,904	June	7	44,282	+ 1.4	June	2	40,451	+ 1.0
	13	47,615		14	42,625	+ 11.7		9	44,056	+ 0.5
	20	49,190		21	43,621	+ 12.8		16	43,950	– 3.0
	27	48,765		28	46,894	+ 4.0		23	45,356	– 3.8
								30	44,256	+ 6.0
July	4	46,037	July	5	45,838	+ 0.4	July	7	42,332	+ 8.3
	11	50,407		12	49,165	+ 2.5		14	46,206	+ 6.4
	18	52,124		19	52,635	– 1.0		21	47,691	+ 10.4
	25	50,898		26	49,943	+ 1.9		28	48,066	+ 3.9
Aug.	1	48,364	Aug.	2	50,126	– 3.5	Aug.	4	49,200	+ 1.9
	8	49,901		9	51,834	– 3.7		11	49,516	+ 4.7
	15	49,262		16	49,507	– 0.5		18	43,316	+ 14.3
	22	45,797		23	47,981	– 4.6		25	45,679	+ 5.0
	29	47,014		30	48,138	– 2.3				
Sept.	5	46,351	Sept.	6	46,844	– 1.1	Sept.	1	46,407	+ 3.7
	12	42,980		13	45,549	– 5.6		8	44,980	+ 4.1
	19	43,617		20	44,434	– 1.8		15	43,370	+ 5.0
	26	41,630		27	44,351	– 6.1		22	41,239	+ 7.7
								29	41,172	+ 7.7
Oct.	3	42,204	Oct.	4	40,992	+ 3.0	Oct.	6	41,357	– 0.9
	10	41,501		11	40,409	+ 2.7		13	40,940	– 1.3
	17	41,446		18	40,743	+ 1.7		20	41,213	– 1.1
	24	41,513		25	41,002	+ 1.2		27	41,494	– 1.2
	31	41,658								
Nov.	7	41,013	Nov.	1	42,355	– 1.6	Nov.	3	41,325	+ 2.5
	14	42,129		8	41,300	– 0.7		10	41,910	– 1.5
	21	42,566		15	42,365	– 0.6		17	42,982	– 1.4
	28	41,711		22	44,705	– 4.8		24	39,605	+ 12.9
				29	42,727	– 2.4				
Dec.	5	43,431	Dec.	6	43,898	– 1.1	Dec.	1	43,360	– 1.5
	12	45,293		13	44,824	+ 1.0		8	44,843	– 2.1
	19	47,108		20	46,555	+ 1.2		15	43,970	+ 1.9
	26	44,065		27	44,711	– 1.4		22	45,670	+ 1.9
								29	39,326	+ 13.7

Note: "Weekly Electric Output" is the total of that reported by the individual utilities which consists of the net electric energy generated by each respondent utility plus energy received from others less energy delivered for resale.

These figures are based on the reports of investor-owned utilities, large municipal systems, and state and Federal agencies comprising 94 percent of the total. They are then expanded to an estimated full coverage of the contiguous United States. As these data are for 52 weeks rather than for the calendar year and include net imports and purchases from industrial plants they do not add to totals for the electric utility industry shown in other tables.

FUEL
SECTION IV

Chart IV-A
ELECTRIC POWER GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY
BY FUEL SOURCE*



*Excludes geothermal, wood and waste.
Based on Table 21, page 30.
Source: Energy Information Administration, Form 4.

TABLE 21
GENERATION BY FUEL – TOTAL ELECTRIC UTILITY INDUSTRY*
BY YEAR AND KIND OF FUEL
KILOWATT-HOURS IN MILLIONS

Year	Total Thermal Generation**	Coal	Percent of Total	Fuel Oil	Percent of Total	Gas	Percent of Total	Nuclear	Percent of Total
1981	**2,028,026**	**1,203,560**	**59.3**	**206,026**	**10.2**	**345,759**	**17.0**	**272,681**	**13.5**
1980	2,004,870	1,161,969	58.0	245,547	12.2	346,233	17.3	251,121	12.5
1979	1,963,184	1,075,595	54.8	302,948	15.4	329,486	16.8	255,155	13.0
1978	1,922,566	976,618	50.8	364,153	18.9	305,392	15.9	276,403	14.4
1977	1,899,657	985,465	51.9	357,866	18.8	305,444	16.1	250,882	13.2
1976	1,750,058	944,562	54.0	319,779	18.3	294,610	16.8	191,107	10.9
1975	1,614,117	852,972	52.8	288,873	17.9	299,766	18.6	172,506	10.7
1974	1,562,806	829,842	53.1	299,306	19.1	319,931	20.5	113,727	7.3
1973	1,582,292	845,704	53.4	312,805	19.8	340,449	21.5	83,334	5.3
1972	1,475,228	772,871	52.4	272,530	18.5	375,735	25.5	54,092	3.6
1971	1,345,416	714,676	53.1	218,608	16.3	374,026	27.8	38,106	2.8
1970	1,283,271	706,102	55.0	182,488	14.2	372,884	29.1	21,797	1.7
1969	1,191,055	706,001	59.3	137,847	11.6	333,279	28.0	13,928	1.1
1968	1,106,142	684,905	61.9	104,276	9.4	304,433	27.5	12,528	1.2
1967	992,215	630,483	63.5	89,271	9.0	264,806	26.7	7,655	0.8
1966	949,072	613,475	64.6	78,926	8.3	251,151	26.5	5,520	0.6
1965	860,943	570,926	66.3	64,801	7.5	221,559	25.8	3,657	0.4
1964	806,565	526,230	65.2	56,954	7.1	220,038	27.3	3,343	0.4
1963	750,742	493,927	65.8	52,001	6.9	201,602	26.9	3,212	0.4
1962	683,803	450,249	65.8	46,983	6.9	184,301	27.0	2,270	0.3
1961	639,969	421,871	65.9	47,120	7.4	169,286	26.5	1,692	0.2

*Alaska and Hawaii included since 1963.
**Excludes generation by geothermal, wood and waste.
Source: Energy Information Administration, Form 4.

TABLE 22
GENERATION BY FUEL – TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND KIND OF FUEL
1980 and 1981 – KILOWATT-HOURS IN MILLIONS

Division/State	Total Thermal*		Coal		Fuel Oil		Gas		Nuclear Fuel	
	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980
Total United States	**2,026,026**	**2,004,870**	**1,203,560**	**1,161,969**	**206,026**	**245,547**	**345,759**	**346,233**	**272,681**	**251,121**
Maine	7,370	6,458	–	–	2,158	2,054	–	–	5,212	4,404
New Hampshire	4,356	5,100	2,197	2,733	2,150	2,367	9	–	–	–
Vermont	3,609	3,026	21	13	8	22	11	12	3,569	2,979
Massachusetts	32,564	34,748	2,250	1,792	25,422	29,297	561	427	4,331	3,232
Rhode Island	820	962	–	–	605	825	215	137	–	–
Connecticut	23,525	24,448	–	–	10,851	12,613	–	–	12,674	11,835
New England	**72,244**	**74,742**	**4,468**	**4,538**	**41,194**	**47,178**	**796**	**576**	**25,786**	**22,450**
New York	80,168	82,347	14,403	14,471	36,755	37,834	11,564	10,765	17,446	19,277
New Jersey	31,968	29,742	6,982	6,425	6,166	8,758	7,145	6,902	11,675	7,627
Pennsylvania	115,938	121,776	92,059	98,756	9,377	10,727	225	200	14,277	12,093
Middle Atlantic	**228,074**	**233,835**	**113,444**	**119,652**	**52,298**	**57,319**	**18,934**	**17,867**	**43,398**	**38,997**
Ohio	111,741	110,236	106,762	106,800	439	1,036	133	281	4,407	2,119
Indiana	67,259	70,143	66,426	69,635	363	348	470	160	–	–
Illinois	98,751	103,294	62,986	66,910	5,334	7,237	948	1,406	29,483	27,741
Michigan	74,475	73,764	53,185	50,449	3,083	5,602	1,141	1,822	17,066	15,891
Wisconsin	35,114	35,919	24,821	24,943	162	248	412	816	9,719	9,912
East North Central	**387,340**	**393,356**	**314,180**	**318,737**	**9,381**	**14,471**	**3,104**	**4,485**	**60,675**	**55,663**
Minnesota	30,707	30,893	20,025	20,066	83	208	412	592	10,187	10,027
Iowa	21,621	20,825	19,136	17,755	65	66	216	436	2,204	2,563
Missouri	48,129	48,369	47,400	46,964	144	244	585	1,161	–	–
North Dakota	13,811	13,315	13,774	13,286	37	29	–	–	–	–
South Dakota	2,678	2,845	2,662	2,808	14	24	2	13	–	–
Nebraska	14,861	14,973	8,482	8,122	44	124	347	944	5,988	5,783
Kansas	24,530	25,122	17,587	16,210	324	438	6,619	8,474	–	–
West North Central	**156,337**	**156,342**	**129,066**	**125,211**	**711**	**1,136**	**8,181**	**11,622**	**18,379**	**18,373**
Delaware	8,321	6,662	4,637	2,408	3,128	3,576	556	678	–	–
Maryland	28,717	30,904	12,782	14,589	4,049	5,024	363	344	11,523	10,947
District of Columbia	358	699	–	–	358	699	–	–	–	–
Virginia	37,146	33,440	15,381	13,384	3,797	5,419	149	171	17,819	11,466
West Virginia	73,139	70,372	72,632	69,956	481	408	26	8	–	–
North Carolina	69,078	66,584	62,568	60,463	213	249	51	97	6,246	5,775
South Carolina	40,039	38,882	21,081	19,521	1,216	1,550	414	407	17,328	17,404
Georgia	59,649	58,943	51,790	49,674	419	546	205	287	7,235	8,436
Florida	98,814	95,686	21,096	19,737	47,442	44,352	15,828	14,860	14,448	16,737
South Atlantic	**415,261**	**402,172**	**261,967**	**249,732**	**61,103**	**64,823**	**17,592**	**16,852**	**74,599**	**70,765**
Kentucky	57,492	54,165	57,071	53,883	183	124	238	158	–	–
Tennessee	53,042	51,449	48,150	50,618	164	198	24	114	4,704	519
Alabama	68,758	68,911	44,888	45,242	45	63	182	108	23,643	23,498
Mississippi	14,796	18,500	6,606	6,958	1,767	3,346	6,423	8,196	–	–
East South Central	**194,088**	**193,025**	**156,715**	**156,701**	**2,159**	**3,731**	**6,867**	**8,576**	**28,347**	**24,017**
Arkansas	24,071	17,992	9,476	2,941	461	1,969	5,059	5,249	9,075	7,833
Louisiana	44,111	45,739	1,529	–	2,634	4,787	39,948	40,952	–	–
Oklahoma	42,952	43,319	13,660	9,711	22	28	29,270	33,580	–	–
Texas	206,037	201,931	70,904	62,053	709	949	134,424	138,929	–	–
West South Central	**317,171**	**308,981**	**95,569**	**74,705**	**3,826**	**7,733**	**208,701**	**218,710**	**9,075**	**7,833**
Montana	5,235	5,514	5,046	5,140	13	22	176	352	–	–
Idaho	1	4	–	–	–	–	1	4	–	–
Wyoming	25,580	21,245	25,500	21,150	71	62	9	33	–	–
Colorado	24,001	21,921	22,171	18,594	85	158	996	2,502	749	667
New Mexico	22,924	24,581	17,885	19,331	83	189	4,956	5,061	–	–
Arizona	33,787	27,055	28,123	21,702	268	867	5,396	4,486	–	–
Utah	11,137	11,291	10,868	10,870	39	63	230	358	–	–
Nevada	13,996	11,751	9,549	7,755	143	1,473	4,304	2,523	–	–
Mountain	**136,661**	**123,362**	**119,142**	**104,542**	**702**	**2,834**	**16,068**	**15,319**	**749**	**667**
Washington	9,077	9,343	6,985	7,129	13	98	37	75	2,042	2,041
Oregon	8,133	6,205	1,679	725	12	57	18	28	6,424	5,395
California	94,519	94,469	–	–	27,753	39,276	63,559	50,273	3,207	4,920
Pacific	**111,729**	**110,017**	**8,664**	**7,854**	**27,778**	**39,431**	**63,614**	**50,376**	**11,673**	**12,356**
Alaska	2,591	2,548	345	297	344	401	1,902	1,850	–	–
Hawaii	6,530	6,490	–	–	6,530	6,490	–	–	–	–
Alaska & Hawaii	**9,121**	**9,038**	**345**	**297**	**6,874**	**6,891**	**1,902**	**1,850**	**–**	**–**

*Excludes generation by geothermal, wood and waste.
Source: Energy Information Administration, Form 4.

TABLE 23
CONSUMPTION OF FOSSIL FUELS FOR ELECTRIC GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY*
BY YEAR AND KIND OF FUEL

Year	Coal (Thousand Short Tons)	Fuel Oil (Thousand 42-Gallon Barrels)	Gas (Million Cubic Feet)	Total Fossil Fuel in Coal Equivalent**† (Thousand Short Tons)	Net Generation by Fuels** (Kwhr in Millions)	Heat Rate† (Btu per Kwhr)	Lbs. of Coal per Kwhr†
1981	**596,936**	**351,111**	**3,640,154**	**922,133‡**	**1,755,345**	**10,506**	**0.992**
1980	569,453	420,214	3,681,595	916,952‡	1,753,749	10,489	0.980
1979	527,317	523,256	3,490,517	837,371	1,708,029	10,470	0.981
1978	481,624	635,829	3,188,370	811,814	1,646,163	10,495	0.986
1977	477,215	623,656	3,190,571	798,425	1,648,775	10,449	0.969
1976	448,431	555,583	3,080,627	740,112	1,558,951	10,369	0.950
1975	406,032	506,081	3,157,591	686,236	1,441,611	10,383	0.952
1974	392,344	536,140	3,429,072	685,115	1,449,079	10,481	0.946
1973	388,190	559,842	3,640,756	688,043	1,498,958	10,429	0.918
1972	352,391	493,663	3,976,762	647,968	1,421,136	10,479	0.912
1971	327,878	396,438	3,975,972	599,766	1,307,310	10,536	0.918
1970	320,818	335,504	3,931,996	573,152	1,261,474	10,508	0.909
1969	310,641	251,027	3,487,642	517,937	1,177,127	10,457	0.880
1968	297,779	188,642	3,147,909	475,475	1,093,614	10,371	0.870
1967	274,185	161,278	2,746,352	428,165	984,560	10,396	0.870
1966	266,477	140,949	2,609,949	409,854	943,552	10,399	0.869
1965	244,788	115,203	2,321,101	367,567	857,286	10,384	0.858
1964	225,425	101,141	2,322,896	344,083	803,222	10,407	0.857
1963	211,332	93,314	2,144,473	319,840	747,530	10,438	0.856
1962	193,238	85,768	1,965,974	292,501	681,533	10,493	0.858
1961	182,121	85,736	1,825,117	275,544	638,277	10,552	0.863

*Alaska and Hawaii included since 1963.
**Excludes geothermal, wood, waste, and nuclear fuels.
†EEI estimate.
‡Beginning in 1980, Coal Equivalents are calculated on the basis of Btu instead of generation data.
Source: Energy Information Administration, Form 4.

TABLE 24
CONSUMPTION OF FOSSIL FUELS FOR ELECTRIC GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND KIND OF FUEL
YEAR 1981

Division/State	Coal (Thousand Short Tons)	Fuel Oil (Thousand 42-Gallon Barrels)	Gas (Million Cubic Feet)	Total Fossil Fuel in Coal Equivalent*† (Thousand Short Tons)	Net Generation by Fuels* (Kwhr in Millions)	Heat Rate† (Btu per Kwhr)	Lbs. of Coal per Kwhr†
Total United States	**596,936**	**351,111**	**3,640,154**	**922,133**	**1,755,345**	**10,506**	**0.992**
Maine	–	3,764	–	927	2,158	10,851	–
New Hampshire	890	4,003	138	1,849	4,356	10,972	0.810
Vermont	14	25	193	40	40	17,675	1.333
Massachusetts	845	40,779	6,892	11,137	28,233	10,042	0.751
Rhode Island	–	1,246	2,603	415	820	12,760	–
Connecticut	–	18,313	–	4,493	10,851	10,463	–
New England	**1,749**	**68,130**	**9,826**	**18,861**	**46,458**	**10,323**	**0.783**
New York	6,485	63,165	130,507	28,276	62,722	11,099	0.901
New Jersey	2,768	11,195	80,125	8,669	20,293	10,847	0.793
Pennsylvania	39,752	17,069	3,267	44,246	101,661	10,432	0.864
Middle Atlantic	**49,005**	**91,429**	**213,899**	**81,191**	**184,676**	**10,704**	**0.864**
Ohio	48,460	1,056	2,051	48,834	107,334	10,220	0.908
Indiana	32,220	743	5,309	32,669	67,259	10,389	0.970
Illinois	32,412	10,167	13,166	36,159	69,268	10,836	1.029
Michigan	23,407	6,031	19,230	25,416	57,409	10,378	0.880
Wisconsin	13,849	365	7,428	14,317	25,395	10,836	1.116
East North Central	**150,348**	**18,362**	**47,184**	**157,395**	**326,665**	**10,463**	**0.957**
Minnesota	12,576	210	5,552	12,961	20,520	11,217	1.256
Iowa	11,808	181	3,362	12,050	19,417	10,952	1.234
Missouri	23,377	323	7,662	23,850	48,129	10,519	0.986
North Dakota	12,358	91	20	12,398	13,811	12,823	1.794
South Dakota	2,536	54	55	2,565	2,678	12,086	1.905
Nebraska	5,067	93	4,560	5,340	8,873	10,952	1.195
Kansas	11,327	629	79,117	15,828	24,530	11,450	1.288
West North Central	**79,049**	**1,581**	**100,328**	**84,992**	**137,958**	**11,000**	**1.225**
Delaware, Maryland and D.C.	7,101	13,507	11,682	10,948	25,873	10,519	0.815
Virginia	6,550	6,876	2,180	8,363	19,327	10,718	0.852
West Virginia	30,139	826	198	30,347	73,139	10,362	0.830
North Carolina	24,949	480	902	25,099	62,832	9,521	0.798
South Carolina	8,679	2,104	5,009	9,417	22,711	10,175	0.823
Georgia	21,940	849	2,786	22,276	52,414	9,956	0.847
Florida	9,401	77,106	171,467	37,130	84,366	10,334	0.891
South Atlantic	**108,759**	**101,748**	**194,224**	**143,580**	**340,662**	**10,156**	**0.830**
Kentucky	25,910	323	2,589	26,112	57,492	10,074	0.908
Tennessee	20,497	322	316	20,592	48,338	9,896	0.851
Alabama	19,504	96	1,780	19,612	45,115	10,247	0.869
Mississippi	3,334	2,872	74,559	7,206	14,796	11,025	1.009
East South Central	**69,245**	**3,613**	**79,244**	**73,522**	**165,741**	**10,153**	**0.884**
Arkansas	5,555	754	54,915	9,156	14,996	10,952	1.172
Louisiana	1,077	4,552	415,912	31,344	44,111	10,907	1.409
Oklahoma	8,368	41	285,702	25,743	42,952	10,365	1.225
Texas	51,142	1,500	1,378,235	147,554	206,037	10,593	1.443
West South Central	**66,142**	**6,847**	**2,134,764**	**213,797**	**308,096**	**10,610**	**1.384**
Montana	3,338	39	2,069	3,473	5,235	11,314	1.323
Idaho	–	–	16	296	1	13,563	–
Wyoming	16,559	147	108	16,614	25,580	11,283	1.299
Colorado	11,781	198	13,593	12,495	23,252	10,901	1.063
New Mexico	10,620	178	54,560	13,682	22,924	10,911	1.188
Arizona	14,025	499	57,911	17,053	33,787	10,771	0.997
Utah	4,956	79	3,097	5,102	11,137	10,530	0.912
Nevada	4,877	245	44,249	7,023	13,996	11,213	1.021
Mountain	**66,156**	**1,385**	**175,603**	**75,738**	**135,912**	**10,964**	**1.111**
Washington	4,965	37	491	5,010	7,035	10,379	1.422
Oregon	1,197	37	186	1,222	1,709	10,823	1.426
California	–	46,039	655,334	60,109	91,312	10,636	–
Pacific	**6,162**	**46,113**	**656,011**	**66,341**	**100,056**	**10,626**	**1.422**
Alaska	321	776	29,071	2,412	2,591	15,313	1.861
Hawaii	–	11,127	–	4,304	6,530	10,598	–
Alaska & Hawaii	**321**	**11,903**	**29,071**	**6,716**	**9,121**	**11,035**	**1.861**

*Excludes geothermal, wood, waste, and nuclear fuels.

†EEI estimate.

Source: Energy Information Administration, Form 4.

TABLE 25
ANALYSIS OF FUEL FOR ELECTRIC GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY
FUEL BURNED UNDER BOILERS AND BY INTERNAL COMBUSTION ENGINES
1978– 1981 BY GEOGRAPHIC DIVISION

		Composite Averages			Coal (a)			Oil (b)			Gas (c)		
Division	Year	Cost per Million Btu Consumed	Cost of Fuel per Net Kwhr	Btu per Net Kwhr	Cost per Million Btu Consumed	Cost per Ton	Btu per Pound	Cost per Million Btu Consumed	Cost per Bbl	Btu per Gallon	Cost per Million Btu Consumed	Cost per M Cu Ft	Btu per Cu Ft
United States	1981	230.2¢	2.42¢	10,506	158.1¢	$33.71	10,659	535.8¢	$33.11	147,128	280.8¢	290.50¢	1,035
	1980	197.0	2.07	10,489	139.9	30.04	10,732	418.2	25.91	147,484	220.4	228.20	1,035
	1979	155.4	1.62	10,470	126.7	27.13	10,702	293.3	18.09	146,846	173.9	179.90	1,035
	1978	145.3	1.53	10,495	116.1	24.70	10,635	222.9	13.67	146,001	141.0	145.50	1,032
New England	1981	480.9	4.96	10,323	214.0	54.10	12,638	511.6	31.89	148,392	377.2	379.40	1,006
	1980	376.8	3.89	10,317	168.4	43.62	12,953	398.5	24.82	148,291	297.5	300.10	1,009
	1979	267.0	2.76	10,331	158.7	40.70	12,823	274.9	17.07	147,862	239.4	241.90	1,010
	1978	197.8	2.02	10,192	149.8	38.11	12,718	200.2	12.37	147,112	150.2	150.20	1,000
Middle Atlantic	1981	297.3	3.18	10,704	169.9	40.92	12,043	528.7	32.67	147,103	380.2	392.20	1,032
	1980	243.2	2.59	10,639	142.0	34.39	12,106	428.5	26.45	146,964	298.2	308.00	1,033
	1979	195.9	2.03	10,598	130.3	31.27	12,003	301.7	18.51	146,121	250.5	258.70	1,033
	1978	167.6	1.78	10,595	125.9	29.87	11,858	217.0	13.29	145,858	170.1	174.00	1,023
East North Central	1981	185.5	1.94	10,463	168.7	37.09	10,995	633.8	39.07	146,786	351.5	303.07	862
	1980	168.9	1.77	10,475	151.4	33.28	10,990	474.3	28.99	145,533	288.7	261.60	906
	1979	149.5	1.57	10,527	135.0	29.25	10,836	327.2	19.86	144,546	238.6	211.40	886
	1978	137.6	1.46	10,598	124.1	26.52	10,683	263.9	15.88	143,207	200.1	173.90	869
West North Central	1981	134.4	1.48	11,000	126.9	23.67	9,326	412.3	24.85	143,511	228.1	225.35	988
	1980	125.0	1.37	10,996	116.8	22.13	9,472	349.8	22.14	147,882	185.8	180.60	972
	1979	118.9	1.31	11,042	110.9	21.16	9,539	250.1	15.21	144,837	146.2	142.20	972
	1978	108.0	1.20	11,099	99.3	19.07	9,605	219.6	13.26	143,760	120.4	117.20	973
South Atlantic	1981	234.4	2.38	10,156	179.5	43.32	12,065	475.5	29.54	147,902	190.0	197.95	1,042
	1980	184.6	2.05	10,127	157.1	37.98	12,089	378.4	23.59	148,512	162.9	166.30	1,021
	1979	179.1	1.81	10,108	146.1	34.91	11,947	281.2	17.48	147,996	137.0	139.30	1,017
	1978	154.8	1.58	10,201	136.9	32.24	11,779	203.7	12.56	146,822	104.2	105.40	1,011
East South Central	1981	181.5	1.84	10,153	174.5	40.53	11,616	393.2	24.04	145,571	257.7	262.68	1,019
	1980	162.5	1.66	10,205	155.9	36.33	11,650	305.1	19.23	150,074	212.2	216.10	1,018
	1979	143.8	1.48	10,303	138.3	31.74	11,477	222.0	13.92	149,240	178.2	181.20	1,017
	1978	131.2	1.35	10,299	122.3	27.34	11,176	202.6	12.34	145,024	147.9	151.50	1,024
West South Central	1981	214.6	2.28	10,610	140.0	21.40	7,641	489.1	30.30	147,528	242.5	250.96	1,035
	1980	173.1	1.84	10,609	118.9	17.97	7,560	370.9	23.13	148,485	184.8	192.30	1,041
	1979	147.8	1.57	10,595	98.4	14.36	7,297	252.2	15.64	147,630	153.3	159.80	1,043
	1978	129.3	1.36	10,514	73.2	10.66	7,284	197.1	12.14	146,664	131.7	136.80	1,039
Mountain	1981	121.0	1.33	10,964	93.0	18.16	9,767	491.8	29.53	142,987	291.3	299.95	1,030
	1980	111.4	1.22	10,972	81.4	15.56	9,562	417.1	27.27	146,696	246.5	253.90	1,030
	1979	101.0	1.11	10,978	68.9	13.40	9,722	279.8	17.10	145,472	208.3	214.90	1,031
	1978	81.2	0.88	10,871	55.7	10.81	9,701	233.9	14.15	144,014	146.5	150.50	1,028
Pacific	1981	452.7	4.81	10,626	116.6	18.79	8,055	667.2	40.33	143,913	394.6	415.48	1,053
	1980	393.9	4.12	10,452	90.5	14.68	8,113	497.9	30.49	145,788	350.1	368.80	1,053
	1979	275.6	2.78	10,077	63.6	10.50	8,256	325.4	19.92	145,744	244.3	257.70	1,055
	1978	242.1	2.48	10,260	61.2	9.72	7,942	280.0	16.71	145,535	218.1	230.90	1,059
Alaska	1981	137.9	2.11	15,313	190.0	30.63	8,035	879.1	51.28	138,883	99.5	99.50	1,000
	1980	105.1	1.66	15,801	190.6	30.63	8,035	399.3	25.59	133,791	83.6	83.60	1,000
	1979	132.1	1.97	14,893	131.0	22.77	8,692	401.7	22.78	135,009	–	–	–
	1978					Not reported							
Hawaii	1981	659.0	6.98	10,598	–	–	–	659.0	40.96	147,992	–	–	–
	1980	378.2	4.05	10,718	–	–	–	378.2	23.72	149,321	–	–	–
	1979	257.2	2.72	10,587	–	–	–	257.2	16.23	150,263	–	–	–
	1978	222.4	2.37	10,655	–	–	–	222.4	13.98	149,629	–	–	–

(a) Coal includes bituminous and anthracite coal and relatively small amounts of coke, lignite, and wood.
(b) Oil includes fuel oil, crude oil, and small amounts of tar and gasoline.
(c) Gas includes natural and manufactured gas and waste gas.

TABLE 26
ANALYSIS OF FUEL FOR ELECTRIC GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY
FUEL BURNED UNDER BOILERS AND BY INTERNAL COMBUSTION ENGINES
1981 BY STATE

Division/State	Composite Averages: Cost per Million Btu Consumed	Composite Averages: Cost of Fuel per Net Kwhr	Composite Averages: Btu per Net Kwhr	Coal (a): Cost per Million Btu Consumed	Coal (a): Cost per Ton	Coal (a): Btu per Lb.	Oil (b): Cost per Million Btu Consumed	Oil (b): Cost per Bbl	Oil (b): Btu per Gallon	Gas (c): Cost per Million Btu Consumed	Gas (c): Cost per M Cu Ft	Gas (c): Btu per Cu Ft
Total United States	**230.2¢**	**2.42¢**	**10,506**	**158.1¢**	**$33.71**	**10,659**	**535.9¢**	**$33.11**	**147,128**	**280.8¢**	**290.50¢**	**1,035**
Maine	533.3	5.79	10,851	–	–	–	533.3	33.20	148,207	–	–	–
New Hampshire	339.6	3.73	10,972	177.8	46.35	13,032	491.9	30.57	147,948	–	–	–
Vermont	296.7	5.24	17,675	199.2	25.45	6,391	646.8	36.54	134,522	477.2	447.20	1,000
Massachusetts	474.1	4.76	10,042	284.1	64.59	12,712	494.4	30.89	148,765	394.4	393.40	997
Rhode Island	457.8	5.84	12,760	–	–	–	502.4	31.48	149,187	327.0	336.20	1,028
Connecticut	551.1	5.77	10,463	–	–	–	551.1	34.18	147,647	–	–	–
New England	**480.9**	**4.96**	**10,323**	**214.0**	**54.10**	**12,638**	**511.6**	**31.89**	**148,392**	**377.2**	**379.40**	**1,006**
New York	409.7	4.55	11,099	175.5	42.40	12,083	515.6	32.00	147,775	365.3	376.73	1,031
New Jersey	389.8	4.23	10,847	210.7	53.95	12,800	564.0	34.41	145,277	404.4	417.88	1,033
Pennsylvania	204.6	2.13	10,432	166.0	39.78	11,984	557.4	34.11	145,679	396.8	398.03	1,003
Middle Atlantic	**297.3**	**3.18**	**10,704**	**169.9**	**40.92**	**12,043**	**528.7**	**32.67**	**147,103**	**380.2**	**392.20**	**1,032**
Ohio	168.7	1.72	10,220	167.2	37.79	11,301	575.4	34.69	143,540	340.3	346.07	1,017
Indiana	145.9	1.52	10,389	142.7	30.65	10,741	633.0	37.00	139,172	296.2	296.60	1,001
Illinois	230.9	2.50	10,836	187.8	38.66	10,290	686.4	42.92	148,858	416.4	428.09	1,028
Michigan	208.5	2.16	10,378	181.5	44.39	12,229	550.3	33.46	144,786	332.1	215.66	649
Wisconsin	171.1	1.85	10,836	162.6	33.22	10,212	643.2	37.08	137,261	328.3	329.24	1,003
East North Central	**185.5**	**1.94**	**10,463**	**168.7**	**37.09**	**10,995**	**633.8**	**39.07**	**146,786**	**351.5**	**303.07**	**862**
Minnesota	119.2	1.34	11,217	114.5	20.22	8,827	484.6	29.27	143,823	263.8	262.78	996
Iowa	146.2	1.60	10,952	142.9	26.03	9,107	548.7	32.27	140,044	293.9	293.70	999
Missouri	137.2	1.44	10,519	134.9	28.48	10,553	470.0	27.48	139,226	242.7	256.98	1,059
North Dakota	81.7	1.05	12,823	79.7	11.04	6,925	541.0	31.40	138,205	277.3	289.47	1,044
South Dakota	102.6	1.24	12,086	98.5	12.43	6,309	656.0	37.79	137,149	296.1	289.29	977
Nebraska	131.2	1.44	10,952	124.4	22.65	9,101	631.1	36.48	137,641	235.0	227.40	968
Kansas	143.5	1.64	11,450	119.3	21.60	9,055	278.2	17.20	147,222	220.5	216.32	981
West North Central	**134.4**	**1.48**	**11,000**	**126.9**	**23.67**	**9,326**	**412.3**	**24.85**	**143,511**	**228.1**	**225.35**	**988**
Delaware, Maryland and D.C.	295.9	3.11	10,519	189.4	46.48	12,267	514.7	31.40	145,231	344.0	353.19	1,027
Virginia	258.4	2.77	10,718	196.2	48.55	12,372	501.6	31.11	147,669	320.3	325.39	1,023
West Virginia	165.8	1.72	10,362	165.7	39.80	12,008	696.3	40.22	137,542	–	–	–
North Carolina	182.5	1.74	9,521	181.0	44.15	12,192	602.3	34.26	135,430	432.8	447.90	1,035
South Carolina	193.2	1.97	10,175	178.2	43.68	12,254	396.6	24.44	146,749	326.3	333.69	1,023
Georgia	176.1	1.75	9,956	173.2	41.14	11,873	389.4	23.05	140,963	321.5	340.51	1,059
Florida	346.5	3.58	10,334	214.8	50.68	11,799	468.9	29.25	148,530	169.7	171.61	1,011
South Atlantic	**234.4**	**2.38**	**10,156**	**179.5**	**43.32**	**12,065**	**475.5**	**29.54**	**147,902**	**190.0**	**197.95**	**1,042**
Kentucky	151.0	1.52	10,074	150.7	33.90	11,247	450.2	26.49	140,098	253.6	259.84	1,025
Tennessee	173.3	1.72	9,896	172.8	40.12	11,611	388.3	22.80	139,774	288.8	295.43	1,023
Alabama	193.8	1.99	10,247	193.3	46.15	11,936	402.7	23.44	138,582	287.6	327.26	1,138
Mississippi	257.6	2.84	11,025	217.8	52.51	12,055	393.3	24.10	145,928	256.6	260.80	1,016
East South Central	**181.5**	**1.84**	**10,153**	**174.5**	**40.53**	**11,616**	**393.2**	**24.04**	**145,571**	**257.7**	**262.68**	**1,019**
Arkansas	214.8	2.35	10,952	158.6	26.96	8,499	440.7	27.77	150,034	263.1	270.40	1,028
Louisiana	287.5	3.14	10,907	–	–	–	525.0	32.67	148,168	271.2	283.24	1,044
Oklahoma	172.7	1.79	10,365	143.6	24.65	8,582	590.1	34.15	137,801	188.2	196.31	1,043
Texas	207.7	2.20	10,593	137.7	20.42	7,416	345.7	20.79	143,169	243.7	251.24	1,031
West South Central	**214.6**	**2.28**	**10,610**	**140.0**	**21.40**	**7,641**	**489.1**	**30.30**	**147,528**	**242.5**	**250.96**	**1,035**
Montana	69.8	0.79	11,314	56.3	9.63	8,558	485.4	30.84	151,248	443.3	443.37	1,000
Idaho	409.3	5.55	13,563	–	–	–	291.1	16.81	137,412	414.0	450.00	1,087
Wyoming	78.2	0.88	11,283	76.3	13.13	8,604	590.9	34.52	139,065	491.9	420.59	855
Colorado	121.3	1.32	10,901	106.9	21.43	10,026	704.2	39.65	134,563	305.8	296.86	971
New Mexico	118.3	1.29	10,911	76.3	14.18	9,291	368.5	28.21	143,828	278.0	284.50	1,023
Arizona	136.2	1.47	10,771	102.1	21.51	10,539	458.8	27.73	143,884	266.2	279.49	1,050
Utah	123.8	1.30	10,530	118.4	27.14	11,457	595.2	35.79	143,163	227.4	210.40	925
Nevada	178.6	2.00	11,213	111.0	24.62	11,084	390.0	24.00	146,523	329.6	342.92	1,041
Mountain	**121.0**	**1.33**	**10,964**	**93.0**	**18.16**	**9,767**	**491.8**	**29.53**	**142,987**	**291.3**	**299.95**	**1,030**
Washington	99.4	1.03	10,379	93.7	14.98	7,996	858.7	50.84	140,968	478.2	478.22	1,000
Oregon	188.4	2.04	10,823	182.7	30.07	8,228	382.3	22.00	137,000	688.4	718.75	1,044
California	476.4	5.06	10,636	–	–	–	667.1	40.32	143,915	394.4	415.34	1,053
Pacific	**452.7**	**4.81**	**10,626**	**116.6**	**18.79**	**8,055**	**667.2**	**40.33**	**143,913**	**394.6**	**415.48**	**1,053**
Alaska	137.9	2.11	15,313	190.0	30.63	8,035	879.1	51.28	138,883	99.5	99.50	1,000
Hawaii	659.0	6.98	10,598	–	–	–	659.0	40.96	147,992	–	–	–
Alaska & Hawaii	**591.9**	**6.53**	**11,035**	**190.0**	**30.63**	**8,035**	**659.6**	**40.96**	**147,965**	**99.5**	**99.50**	**1,000**

See page 34 for footnotes.

TABLE 27
AVERAGE COST OF FOSSIL FUELS DELIVERED TO STEAM-ELECTRIC UTILITY PLANTS* BY YEARS
(CENTS PER MILLION BTU)

Year	Coal	Residual Oil**	Natural Gas†	All Fossil Fuels**
1981	153.3	529.0	282.8	223.0
1980	135.2	427.9	212.9	189.3
1979	122.4	299.7	175.4	162.1
1978	111.6	212.3	143.8	139.3
1977	94.7	220.4	130.0	127.7
1976	84.8	195.9	103.4	110.4

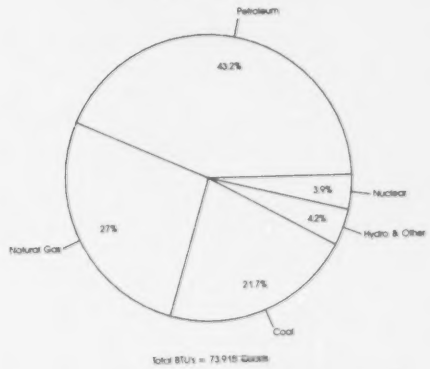
*Excluding Alaska and Hawaii.
**Residual fuel oil prices include Fuel Oil No. 4, No. 5, No. 6, and topped crude fuel oil prices. The weighted average for all fossil fuels includes both residual fuel oil prices and light oil (Fuel Oil No. 2, kerosene, and jet fuel) prices.
†Includes small quantities of coke oven gas, refinery gas and blast furnace gas.
Source: Energy Information Administration, Monthly Energy Review.

ENERGY
SECTION V

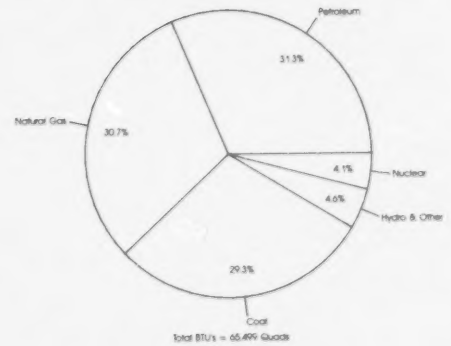
Chart V-A
ENERGY PRODUCTION AND CONSUMPTION
BY PRIMARY ENERGY SOURCE

1981 Production

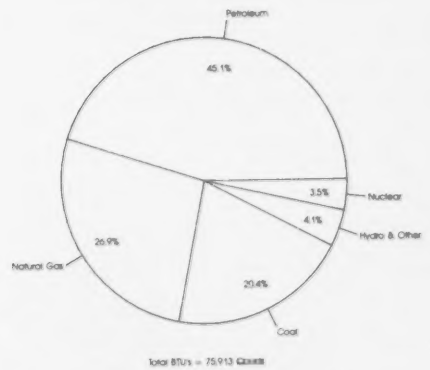
1981 Consumption



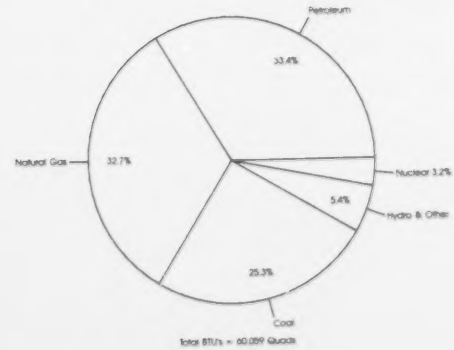
1980 Production



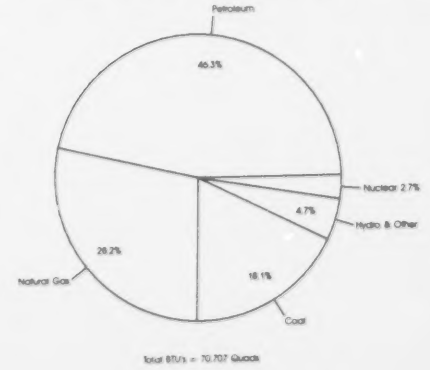
1980 Consumption



1975 Production



1975 Consumption



Source: 'Monthly Energy Review' March, 1982.

TABLE 31
ENERGY SUPPLY AND DISPOSITION BALANCE BY YEARS
(QUADRILLION BTU)

	1981p	1980r	1979r	1978r	1977	1976	1975	1974	1973	1972	1971
SUPPLY											
Production											
Crude Oil & Lease Condensate	18.13	18.25	18.10	18.43	17.45	17.26	17.73	18.57	19.49	20.04	20.03
Natural Gas Plant Liquids	2.27	2.25	2.29	2.25	2.33	2.33	2.37	2.47	2.57	2.60	2.54
Natural Gas	20.10	20.11	20.08	19.49	19.57	19.48	19.64	21.21	22.19	22.21	22.28
Coal	18.70	19.21	17.65	15.04	15.83	15.85	15.19	14.47	14.37	14.49	13.59
Nuclear	2.90	2.67	2.71	3.02	2.70	2.11	1.90	1.27	0.91	0.58	0.41
Hydro	2.73	2.89	2.93	2.94	2.33	2.98	3.15	3.18	2.86	2.86	2.82
Other	0.13	0.11	0.09	0.07	0.08	0.08	0.07	0.06	0.05	0.03	0.02
Total Production	**64.95**	**65.50**	**63.85**	**61.23**	**60.29**	**60.09**	**60.06**	**61.23**	**62.43**	**62.81**	**61.70**
Imports											
Crude Oil	9.35	11.19	13.83	13.46	14.03	11.24	8.72	7.40	6.89	4.71	3.57
Refined Petroleum Products	3.31	3.46	4.11	4.36	4.73	4.43	4.23	5.73	6.58	5.59	4.97
Natural Gas	0.90	1.01	1.30	0.99	1.04	0.99	0.98	0.99	1.06	1.05	0.96
Other	0.32	0.31	0.39	0.44	0.30	0.18	0.19	0.31	0.21	0.11	0.08
Total Imports	**13.87**	**15.97**	**19.62**	**19.26**	**20.09**	**16.84**	**14.11**	**14.42**	**14.73**	**11.46**	**9.58**
Adjustments	(0.57)	(1.85)	(1.66)	(0.36)	(1.96)	(0.21)	(1.08)	(0.65)	(0.48)	(0.51)	(0.81)
Total Supply	**78.25**	**79.62**	**81.81**	**80.13**	**78.43**	**76.72**	**73.09**	**75.00**	**76.68**	**73.77**	**70.47**
DISPOSITION											
Exports											
Coal	2.94	2.40	1.78	1.10	1.47	1.62	1.79	1.64	1.45	1.53	1.55
Other	1.39	1.31	1.12	0.85	0.63	0.59	0.60	0.60	0.63	0.61	0.63
Total Exports	**4.34**	**3.71**	**2.90**	**1.95**	**2.10**	**2.21**	**2.39**	**2.24**	**2.07**	**2.14**	**2.18**
Consumption											
Refined Petroleum Products	32.00	34.20	37.12	37.97	37.12	35.17	32.73	33.45	34.84	32.95	30.56
Natural Gas	19.93	20.39	20.67	20.00	19.93	20.35	19.95	21.73	22.51	22.70	22.47
Coal	16.01	15.46	15.11	13.85	13.96	13.73	12.82	12.88	13.30	12.45	12.01
Nuclear	2.90	2.67	2.71	3.02	2.70	2.11	1.90	1.27	0.91	0.58	0.41
Hydro	2.97	3.11	3.14	3.14	2.51	3.07	3.22	3.31	3.01	2.94	2.86
Other	0.13	0.11	0.09	0.07	0.08	0.08	0.07	0.06	0.05	0.03	0.02
Net Imports of Coal Coke	(0.02)	(0.04)	0.07	0.13	0.02	*	0.01	0.06	(0.01)	(0.03)	(0.03)
Total Consumption	**73.91**	**75.91**	**78.91**	**78.18**	**76.33**	**74.51**	**70.71**	**72.76**	**74.61**	**71.63**	**68.30**
Total Dispostion	**78.25**	**79.62**	**81.81**	**80.13**	**78.43**	**76.72**	**73.09**	**75.00**	**76.68**	**73.77**	**70.47**

	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961
SUPPLY										
Production										
Crude Oil & Lease Condensate	20.40	19.56	19.31	18.65	17.56	16.52	16.16	15.97	15.52	15.21
Natural Gas Plant Liquids	2.51	2.42	2.32	2.18	2.00	1.88	1.80	1.71	1.59	1.55
Natural Gas	21.67	20.45	19.07	17.94	17.01	15.78	15.30	14.51	13.72	13.10
Coal	15.05	14.20	13.93	14.19	13.82	13.38	12.83	12.15	11.21	10.73
Nuclear	0.24	0.15	0.14	0.09	0.06	0.04	0.04	0.04	0.03	0.02
Hydro	2.63	2.65	2.35	2.35	2.06	2.06	1.89	1.77	1.81	1.65
Other	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	*	*
Total Production	**62.51**	**59.44**	**57.13**	**55.41**	**52.52**	**49.67**	**48.03**	**46.16**	**43.88**	**42.27**
Imports										
Crude Oil	2.81	2.99	2.76	2.40	2.62	2.65	2.58	2.43	2.42	2.25
Refined Petroleum Products	4.66	3.91	3.46	3.15	3.01	2.75	2.38	2.22	2.14	1.94
Natural Gas	0.85	0.75	0.67	0.58	0.50	0.47	0.46	0.42	0.42	0.23
Other	0.07	0.06	0.05	0.05	0.05	0.04	0.07	0.03	0.03	0.04
Total Imports	**8.39**	**7.71**	**6.93**	**6.19**	**6.18**	**5.92**	**5.49**	**5.10**	**5.01**	**4.46**
Adjustments	(1.41)	(0.47)	(0.71)	(1.56)	(0.85)	(0.74)	(0.90)	(0.80)	(0.61)	(0.62)
Total Supply	**69.49**	**66.68**	**63.35**	**60.04**	**57.85**	**54.85**	**52.62**	**50.46**	**48.29**	**46.11**
DISPOSITION										
Exports										
Coal	1.94	1.53	1.38	1.35	1.35	1.38	1.34	1.36	1.08	0.98
Other	0.73	0.62	0.65	0.79	0.50	0.48	0.51	0.49	0.40	0.40
Total Exports	**2.66**	**2.15**	**2.03**	**2.15**	**1.85**	**1.86**	**1.85**	**1.85**	**1.48**	**1.38**
Consumption										
Refined Petroleum Products	29.52	28.34	26.98	25.28	24.40	23.25	22.30	21.70	21.05	20.22
Natural Gas	21.79	20.68	19.21	17.94	17.00	15.77	15.29	14.40	13.73	12.93
Coal	12.66	12.72	12.66	12.24	12.48	11.89	11.25	10.69	10.17	9.89
Nuclear	0.24	0.15	0.14	0.09	0.06	0.04	0.04	0.04	0.03	0.02
Hydro	2.65	2.66	2.34	2.34	2.07	2.06	1.91	1.77	1.82	1.68
Other	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	*	*
Net Imports of Coal Coke	(0.06)	(0.04)	(0.02)	(0.02)	(0.03)	(0.02)	(0.01)	(0.01)	(0.01)	(0.01)
Total Consumption	**66.83**	**64.53**	**61.32**	**57.89**	**55.99**	**52.99**	**50.78**	**48.61**	**46.80**	**44.73**
Total Disposition	**69.49**	**66.68**	**63.35**	**60.04**	**57.85**	**54.85**	**52.62**	**50.46**	**48.29**	**46.11**

*Less than .005 Quadrillion BTU.
( ) Denotes negative figure. p Preliminary. r Revised.
Note: Sum of components may not equal total due to independent rounding.
Source: Energy Information Administration, Annual Report to Congress.

TABLE 32
ANNUAL PRODUCTION OF ENERGY RESOURCES BY YEARS
(QUADRILLION BTU)

Year	Coal	Natural Gas*	Natural Gas Plant Liquids	Petroleum**	Hydro	Nuclear	Other†	Total
1981p	**18.70**	**20.10**	**2.27**	**18.13**	**2.73**	**2.90**	**0.12**	**64.95**
1980r	19.21	20.11	2.25	18.25	2.89	2.67	0.11	65.50
1979r	17.65	20.08	2.29	18.10	2.93	2.71	0.09	63.85
1978r	15.04	19.49	2.25	18.43	2.94	3.02	0.06	61.23
1977	15.83	19.57	2.33	17.45	2.33	2.70	0.09	60.29
1976	15.85	19.48	2.33	17.26	2.98	2.11	0.08	60.09
1975	15.19	19.64	2.37	17.73	3.15	1.90	0.07	60.06
1974	14.47	21.21	2.47	18.57	3.18	1.27	0.05	61.23
1973	14.37	22.19	2.57	19.49	2.86	0.91	0.04	62.43
1972	14.49	22.21	2.60	20.04	2.86	0.58	0.03	62.81
1971	13.59	22.28	2.54	20.03	2.82	0.41	0.01	61.70
1970	15.05	21.67	2.51	20.40	2.63	0.24	0.01	62.51
1969	14.20	20.45	2.42	19.56	2.65	0.15	0.01	59.44
1968	13.93	19.07	2.32	19.31	2.35	0.14	0.01	57.13
1967	14.19	17.94	2.18	18.65	2.35	0.09	0.01	55.41
1966	13.82	17.01	2.00	17.56	2.06	0.06	‡	52.52
1965	13.38	15.78	1.88	16.52	2.06	0.04	‡	49.67
1964	12.83	15.30	1.80	16.16	1.89	0.04	‡	48.03
1963	12.15	14.51	1.71	15.97	1.77	0.04	‡	46.16
1962	11.21	13.72	1.59	15.52	1.81	0.03	‡	43.88
1961	10.73	13.10	1.55	15.21	1.65	0.02	‡	42.27

*Dry market natural gas.
**Crude oil and lease condensate.
†Includes geothermal, wood and waste.
‡Less than .005 Quadrillion BTU.
p Preliminary. r Revised.
Note: Sum of components may not equal total due to independent rounding.
Source: Energy Information Administration, Annual Report to Congress.

TABLE 33
TOTAL ENERGY CONSUMPTION BY YEARS
(QUADRILLION BTU)

Year	Coal	Natural Gas (Dry)	Petroleum*	Hydro	Nuclear	Other**	Total
1981p	**16.01**	**19.93**	**32.00**	**2.97**	**2.90**	**0.10**	**73.91**
1980r	15.46	20.39	34.20	3.11	2.67	0.07	75.91
1979r	15.11	20.67	37.12	3.14	2.71	0.16	78.91
1978r	13.85	20.00	37.97	3.14	3.02	0.19	78.18
1977	13.96	19.93	37.12	2.51	2.70	0.11	76.33
1976	13.73	20.35	35.17	3.07	2.11	0.08	74.51
1975	12.82	19.95	32.73	3.22	1.90	0.08	70.71
1974	12.88	21.73	33.45	3.31	1.27	0.11	72.76
1973	13.30	22.51	34.84	3.01	0.91	0.03	74.61
1972	12.45	22.70	32.95	2.94	0.58	0.00	71.63
1971	12.01	22.47	30.56	2.86	0.41	(0.02)	68.30
1970	12.66	21.79	29.52	2.65	0.24	(0.05)	66.83
1969	12.72	20.68	28.34	2.66	0.15	(0.03)	64.53
1968	12.66	19.21	26.98	2.34	0.14	(0.01)	61.32
1967	12.24	17.94	25.28	2.34	0.09	(0.01)	57.89
1966	12.48	17.00	24.40	2.07	0.06	(0.03)	55.99
1965	11.89	15.77	23.25	2.06	0.04	(0.02)	52.99
1964	11.25	15.29	22.30	1.91	0.04	(0.01)	50.78
1963	10.69	14.40	21.70	1.77	0.04	(0.01)	48.61
1962	10.17	13.73	21.05	1.82	0.03	(0.01)	46.80
1961	9.89	12.93	20.22	1.68	0.02	(0.01)	44.73

*Refined petroleum products supplied including natural gas plant liquids and crude oil burned as fuel.
**Includes geothermal, wood and waste and net imports of coal coke.
( ) Denotes negative figure.
r Revised.
p Preliminary. Total consumption by fuels will not agree with Consumption by Fuel, by Sector (Table 34) due to data revisions.
Note: Sum of components may not equal total due to independent rounding.
Source: Energy Information Administration, Annual Report to Congress.

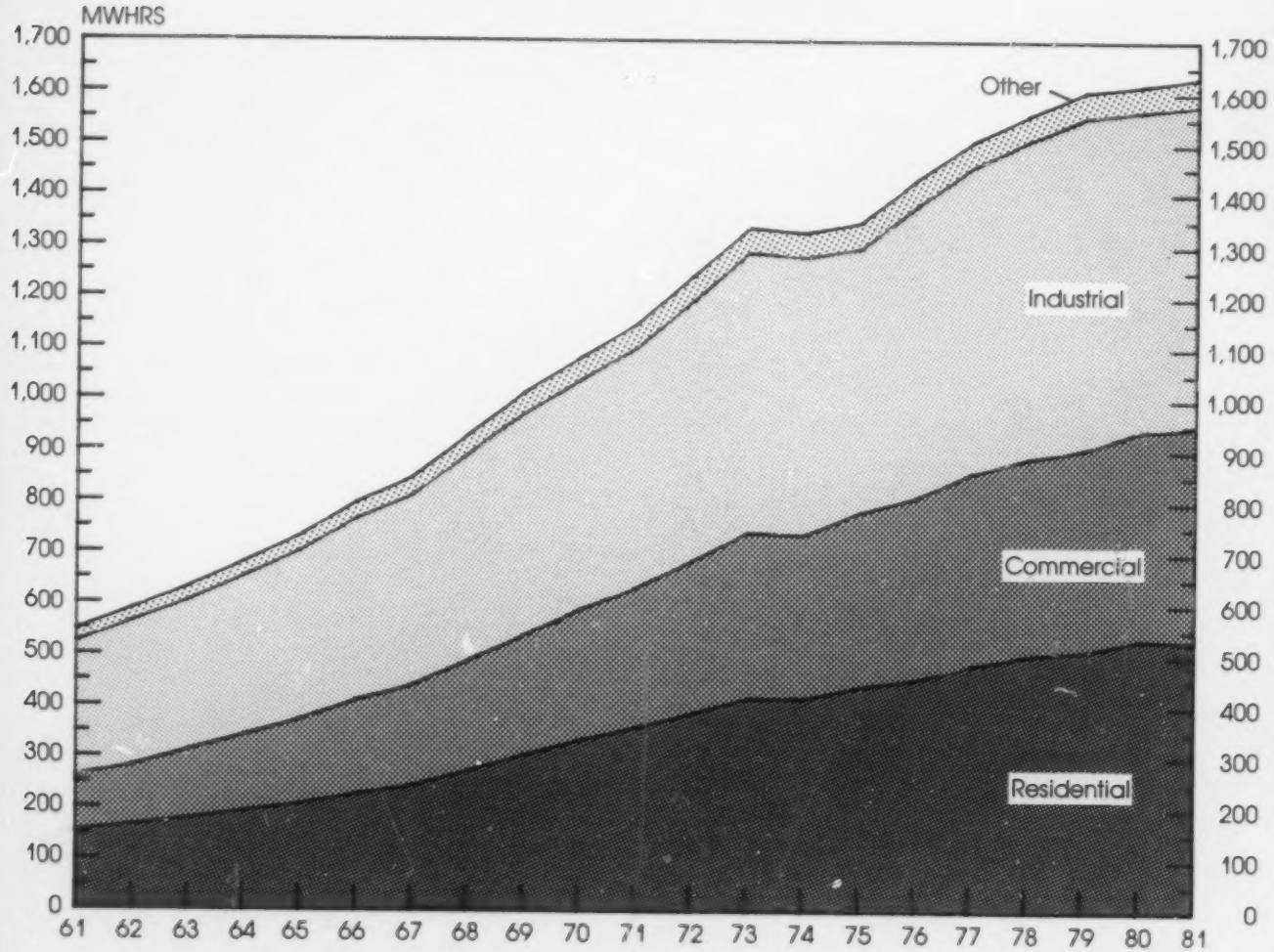
TABLE 34
ANNUAL CONSUMPTION OF FOSSIL ENERGY RESOURCES BY KIND OF FUEL, BY SECTOR*
(QUADRILLION BTU)

	1981p	1980r	1979r	1978r	1977r	1976r
Coal						
Residential & Commercial	0.17	0.16	0.21	0.24	0.23	0.23
Industrial	3.14	3.18	3.64	3.37	3.50	3.79
Transportation	**	**	**	**	**	**
Electric Utilities	12.71	12.12	11.26	10.24	10.24	9.72
Total	**16.04**	**15.46**	**15.11**	**13.85**	**13.96**	**13.73**
Natural Gas (Dry)						
Residential & Commercial	7.40	7.54	7.89	7.62	7.46	7.87
Industrial	7.96	8.40	8.55	8.54	8.64	8.76
Transportation	0.63	0.65	0.61	0.54	0.54	0.56
Electric Utilities	3.76	3.81	3.61	3.30	3.28	3.15
Total	**19.76**	**20.39**	**20.67**	**20.00**	**19.93**	**20.35**
Petroleum						
Residential & Commercial	3.12	3.28	3.69	4.06	4.15	4.16
Industrial	8.20	9.27	10.29	10.05	9.79	9.09
Transportation	18.56	19.00	19.79	20.04	19.16	18.47
Electric Utilities	2.23	2.65	3.36	3.81	4.03	3.45
Total	**32.11**	**34.20**	**37.12**	**37.97**	**37.12**	**35.18**

*Sector data excludes electricity sales and energy losses attributed to electric generation.
**Since 1976 the amount of coal consumed by the transportation sector has been negligible.
Note: Sum of components may not equal total due to independent rounding.
Source: Energy Information Administration, Monthly Energy Review.
p Preliminary. r Revised.

ENERGY SALES
SECTION VI

Chart VI-A
SALES TO ULTIMATE CUSTOMERS
INVESTOR-OWNED UTILITIES



Based on Table 39, page 43

TABLE 38
ENERGY SALES – TOTAL ELECTRIC UTILITY INDUSTRY
BY YEAR AND CLASS OF SERVICE
KILOWATT-HOURS IN MILLIONS

Year	Total Sales	Exports to Canada and Mexico	Total Sales to Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1981	**2,155,605**	**1,809**	**2,153,796**	**735,724**	**541,426**	**799,885**	**14,975**	**51,055**	**4,091**	**6,640**
1980r	2,130,190	4,096	2,126,094	734,411	524,122	793,812	14,832	48,284	4,275	6,358
1979r	2,086,582	2,182	2,084,400	695,996	494,723	817,617	14,792	49,604	4,256	7,412
1978r	2,020,004	2,186	2,017,818	679,156	480,748	782,141	14,803	49,509	4,336	7,125
1977	1,953,535	2,744	1,950,791	652,345	469,227	757,168	14,418	46,242	4,212	7,179
1976	1,852,003	2,378	1,849,625	613,072	440,625	725,169	14,413	45,625	4,338	6,383
1975	1,738,107	5,083	1,733,024	586,149	418,069	661,558	13,907	43,625	4,273	5,443
1974	1,703,495	2,726	1,700,769	554,960	392,716	689,435	13,313	40,721	4,258	5,366
1973	1,705,773	2,570	1,703,203	554,171	396,903	687,235	12,836	42,340	4,186	5,532
1972	1,580,466	2,752	1,577,714	511,423	361,859	639,467	12,193	43,190	4,440	5,142
1971	1,469,955	3,514	1,466,441	479,080	333,752	592,700	11,673	39,819	4,537	4,880
1970	1,395,568	4,209	1,391,359	447,795	312,750	572,522	11,183	37,816	4,633	4,660
1969	1,311,008	3,830	1,307,178	407,922	286,686	557,220	10,772	35,861	4,531	4,186
1968	1,206,606	4,285	1,202,321	367,692	265,151	518,834	10,302	32,162	4,540	3,640
1967	1,111,373	4,350	1,107,023	331,525	242,492	486,043	9,863	29,426	4,572	3,102
1966	1,042,158	3,176	1,038,982	306,572	225,878	465,077	9,240	25,922	4,514	1,779
1965	957,113	3,699	953,414	280,970	202,112	433,365	8,782	21,675	4,652	1,858
1964	894,609	4,253	890,356	262,010	183,539	409,356	8,290	20,651	4,721	1,789
1963	832,796	1,985	830,811	241,692	166,516	388,399	7,748	20,194	4,667	1,595
1962	777,749	1,661	776,088	226,414	144,095	373,916	7,350	18,349	4,717	1,247
1961	721,645	917	720,728	209,021	134,864	347,427	6,762	16,438	4,685	1,531

*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.
r Revised.

TABLE 39
ENERGY SALES – INVESTOR-OWNED ELECTRIC UTILITIES
BY YEAR AND CLASS OF SERVICE
KILOWATT-HOURS IN MILLIONS

Year	Total Sales	Sales for Resale†	Total Sales to Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1981	**1,745,653**	**116,248**	**1,629,405**	**527,257**	**419,992**	**628,737**	**10,926**	**37,647**	**1,942**	**2,904**
1980r	1,732,553	118,745	1,613,808	532,025	408,265	623,472	10,820	34,449	2,156	2,621
1979	1,719,640	117,408	1,602,232	509,655	394,511	648,031	10,854	34,165	2,103	2,913
1978	1,675,477	118,716	1,556,761	501,409	384,726	620,470	11,042	34,386	2,085	2,643
1977	1,619,820	115,409	1,504,411	481,167	375,903	598,042	10,912	33,208	2,450	2,729
1976	1,530,286	99,496	1,430,790	453,774	355,555	569,134	11,276	34,810	3,930	2,311
1975	1,447,147	101,273	1,345,874	439,496	340,082	515,798	10,868	33,528	4,158	1,944
1974	1,418,958	93,201	1,325,757	416,333	319,706	542,234	10,409	30,876	4,161	2,038
1973	1,417,386	82,990	1,334,396	416,851	323,018	545,912	10,034	32,452	4,086	2,043
1972	1,316,379	76,572	1,239,807	386,561	297,028	507,080	9,581	33,491	4,333	1,733
1971	1,215,614	70,009	1,145,605	358,564	272,703	468,512	9,206	30,618	4,424	1,578
1970	1,142,777	63,032	1,079,745	333,895	254,684	447,664	8,814	28,721	4,520	1,447
1969	1,070,721	58,641	1,012,080	304,497	232,965	433,422	8,441	26,928	4,417	1,410
1968	984,542	55,572	928,970	272,792	215,090	403,468	8,089	23,908	4,424	1,199
1967	890,755	45,334	845,421	244,416	194,772	371,319	7,695	21,726	4,445	1,048
1966	840,093	43,776	796,317	226,727	182,923	354,759	7,299	19,427	4,403	779
1965	770,804	39,471	731,333	207,580	164,354	329,541	6,943	17,683	4,543	689
1964	717,951	37,980	679,971	192,855	148,050	310,678	6,592	16,580	4,606	610
1963	665,808	35,160	630,648	178,157	133,679	291,542	6,251	15,859	4,567	593
1962	621,040	32,492	588,548	165,598	115,792	281,701	5,947	14,464	4,674	372
1961	575,573	28,817	546,756	153,541	107,522	261,441	5,596	13,481	4,639	536

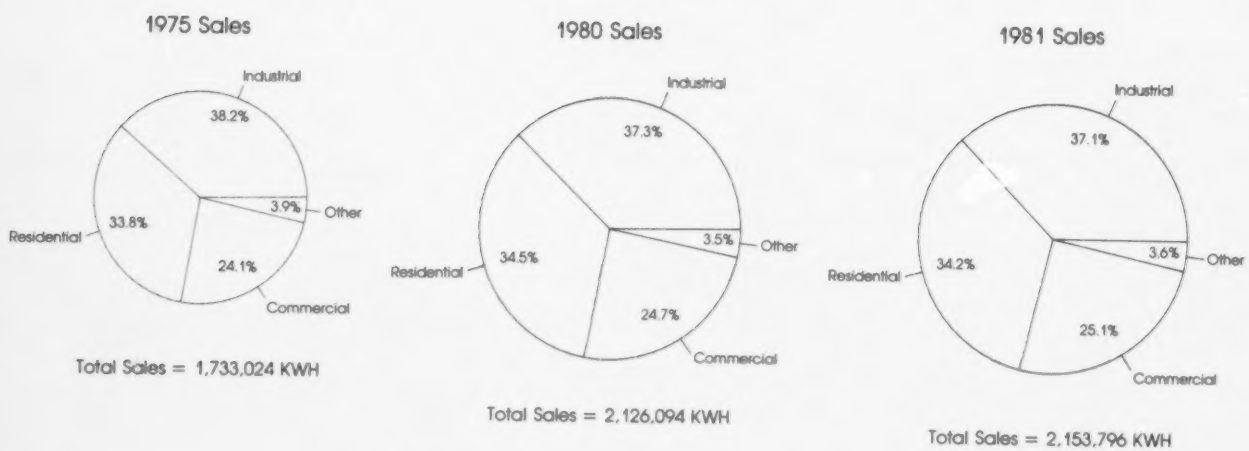
†To non-investor-owned electric utilities and exports.
*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.
rRevised.

TABLE 40
ENERGY SALES IN PERCENT OF TOTAL – TOTAL ELECTRIC UTILITY INDUSTRY
BY YEAR AND CLASS OF SERVICE

Year	Residential	Commercial	Industrial	Street & Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
1981	**34.2%**	**25.1%**	**37.1%**	**0.7%**	**2.4%**	**0.2%**	**0.3%**
1980r	34.5	24.7	37.3	0.7	2.3	0.2	0.3
1979r	33.4	23.7	39.2	0.7	2.4	0.2	0.4
1978	33.7	23.8	38.8	0.7	2.4	0.2	0.4
1977	33.4	24.1	38.8	0.7	2.4	0.2	0.4
1976	33.2	23.8	39.2	0.8	2.5	0.2	0.3
1975	33.8	24.1	38.2	0.8	2.5	0.3	0.3
1974	32.6	23.1	40.5	0.8	2.4	0.3	0.3
1973	32.5	23.3	40.4	0.8	2.5	0.2	0.3
1972	32.4	23.0	40.5	0.8	2.7	0.3	0.3
1971	32.7	22.8	40.4	0.8	2.7	0.3	0.3
1970	32.2	22.5	41.2	0.8	2.7	0.3	0.3
1969	31.2	21.9	42.7	0.8	2.7	0.4	0.3
1968	30.6	22.1	43.1	0.8	2.7	0.4	0.3
1967	29.9	21.9	43.9	0.9	2.7	0.4	0.3
1966	29.5	21.7	44.8	0.9	2.5	0.4	0.2
1965	29.5	21.2	45.4	0.9	2.3	0.5	0.2
1964	29.4	20.6	46.0	0.9	2.3	0.6	0.2
1963	29.1	20.0	46.8	0.9	2.4	0.6	0.2
1962	29.2	18.6	48.2	0.9	2.3	0.6	0.2
1961	29.0	18.7	48.2	0.9	2.3	0.7	0.2

Based on Table 38. r Revised.

Chart VI-B
ENERGY SALES
BY YEAR AND CLASS OF SERVICE
TOTAL ELECTRIC UTILITY INDUSTRY
KILOWATT-HOURS IN MILLIONS

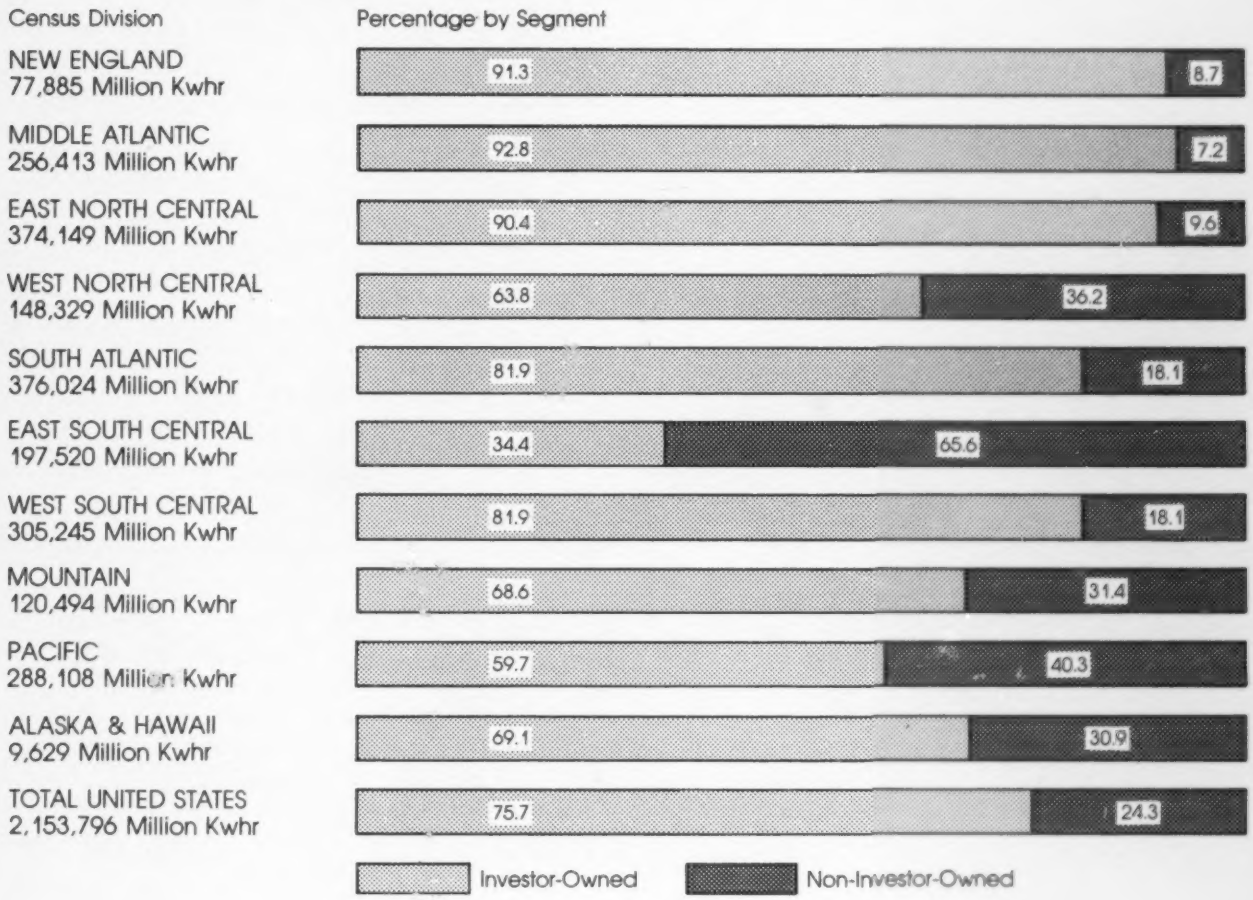


Based on Table 40, as shown above.

Chart VI-C

ENERGY SALES TO ULTIMATE CUSTOMERS

BY INVESTOR-OWNED AND NON-INVESTOR-OWNED ELECTRIC UTILITIES



Based on Table 41A, page 46 and Table 42A, page 48.

TABLE 41A
ENERGY SALES – TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CLASS OF SERVICE
YEAR 1981 – KILOWATT-HOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**2,153,796**	**735,724**	**541,426**	**799,885**	**14,975**	**51,055**	**4,091**	**6,640**
Maine	8,166	3,074	1,619	3,257	65	149	–	2
New Hampshire	6,090	2,511	1,141	2,348	44	46	–	–
Vermont	4,008	1,801	714	1,334	21	136	–	2
Massachusetts	33,128	11,783	11,680	8,714	427	347	61	116
Rhode Island	5,027	1,806	1,675	1,368	74	104	–	–
Connecticut	21,466	8,180	6,925	6,096	224	31	–	10
New England	**77,885**	**29,155**	**23,754**	**23,117**	**855**	**813**	**61**	**130**
New York	106,224	30,640	33,547	32,736	1,137	5,947	2,168	49
New Jersey	49,562	16,071	16,786	16,239	432	1	7	26
Pennsylvania	100,627	31,625	20,916	46,631	563	157	670	65
Middle Atlantic	**256,413**	**78,336**	**71,249**	**95,606**	**2,132**	**6,105**	**2,845**	**140**
Ohio	114,587	33,420	22,692	54,494	706	3,171	46	58
Indiana	56,248	19,379	10,622	25,686	339	169	12	41
Illinois	97,330	29,281	27,085	34,716	738	5,133	351	26
Michigan	67,843	21,884	15,307	29,191	474	897	–	90
Wisconsin	38,141	13,966	9,545	13,699	466	402	–	63
East North Central	**374,149**	**117,930**	**85,251**	**157,786**	**2,723**	**9,772**	**409**	**278**
Minnesota	35,079	12,196	6,968	15,253	209	418	–	35
Iowa	25,197	9,609	5,488	9,537	202	346	–	15
Missouri	40,184	16,729	13,058	9,496	281	571	17	32
North Dakota	5,570	2,601	1,726	1,007	51	178	–	7
South Dakota	4,964	2,488	1,558	686	36	188	–	8
Nebraska	15,517	6,282	5,354	3,206	159	427	12	77
Kansas	21,818	7,590	7,434	6,454	148	189	–	3
West North Central	**148,329**	**57,495**	**41,586**	**45,639**	**1,086**	**2,317**	**29**	**177**
Delaware	5,771	1,699	1,270	2,391	404	–	–	7
Maryland and D.C.	42,352	13,427	11,523	16,673	319	12	325	73
Virginia	50,347	20,447	13,305	11,085	240	5,182	21	67
West Virginia	20,951	6,546	3,828	10,480	64	33	–	–
North Carolina	64,721	25,789	14,815	23,043	245	795	–	34
South Carolina	40,003	14,120	8,041	17,017	94	718	–	13
Georgia	56,435	22,163	14,083	19,675	288	158	61	7
Florida	95,444	47,706	27,505	17,395	569	2,151	–	118
South Atlantic	**376,024**	**151,897**	**94,370**	**117,759**	**2,223**	**9,049**	**407**	**319**
Kentucky	51,689	14,095	13,516	19,788	271	3,905	–	114
Tennessee	71,063	25,429	4,713	39,933	794	29	–	165
Alabama	51,251	17,192	7,285	26,321	298	49	–	106
Mississippi	23,517	9,731	5,119	8,053	193	392	–	29
East South Central	**197,520**	**66,447**	**30,633**	**94,095**	**1,556**	**4,375**	**–**	**414**
Arkansas	24,266	9,187	5,606	8,980	90	382	17	4
Louisiana	61,304	18,652	11,145	26,894	414	1,882	–	2,317
Oklahoma	32,460	12,639	9,356	8,790	128	1,546	–	1
Texas	187,215	58,874	45,961	78,346	833	3,049	–	152
West South Central	**305,245**	**99,352**	**72,068**	**123,010**	**1,465**	**6,859**	**17**	**2,474**
Montana	11,033	2,954	2,203	5,702	61	96	–	17
Idaho	16,289	5,184	4,512	6,372	45	172	–	4
Wyoming	8,281	1,719	3,128	3,344	24	50	–	16
Colorado	22,976	7,490	9,057	5,819	187	330	–	93
New Mexico	10,417	2,707	4,195	2,835	60	556	–	64
Arizona	29,368	9,991	9,827	8,429	138	764	–	219
Utah	11,845	3,476	3,909	3,930	64	461	–	5
Nevada	10,285	3,705	1,847	4,373	76	225	–	59
Mountain	**120,494**	**37,226**	**38,678**	**40,804**	**655**	**2,654**	**–**	**477**
Washington	76,761	27,101	13,815	33,758	303	921	18	845
Oregon	38,523	13,941	9,930	14,367	176	63	–	46
California	172,824	53,499	57,087	50,818	1,722	8,061	303	1,334
Pacific	**288,108**	**94,541**	**80,832**	**98,943**	**2,201**	**9,045**	**321**	**2,225**
Alaska	3,168	1,468	1,564	47	15	66	2	6
Hawaii	6,461	1,877	1,441	3,079	64	–	–	–
Alaska & Hawaii	**9,629**	**3,345**	**3,005**	**3,126**	**79**	**66**	**2**	**6**

TABLE 41B
ENERGY SALES – TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CLASS OF SERVICE
YEAR 1980r – KILOWATT-HOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**2,126,094**	**734,411**	**524,122**	**793,812**	**14,832**	**48,284**	**4,275**	**6,358**
Maine	7,980	3,052	1,580	3,143	67	137	–	1
New Hampshire	6,100	2,533	1,117	2,361	42	47	–	–
Vermont	3,753	1,682	686	1,234	19	130	–	2
Massachusetts	33,158	11,934	11,501	8,770	424	345	55	129
Rhode Island	5,096	1,839	1,675	1,406	72	104	–	–
Connecticut	21,438	8,265	6,788	6,116	229	30	–	10
New England	**77,525**	**29,305**	**23,347**	**23,030**	**853**	**793**	**55**	**142**
New York	106,370	30,889	33,033	32,551	1,163	6,527	2,167	40
New Jersey	49,807	16,517	16,490	16,344	420	1	7	28
Pennsylvania	99,933	31,786	20,361	46,109	556	232	828	61
Middle Atlantic	**256,110**	**79,192**	**69,884**	**95,004**	**2,139**	**6,760**	**3,002**	**129**
Ohio	114,645	34,052	22,331	54,134	693	3,326	48	61
Indiana	56,225	19,822	10,521	25,339	334	164	14	31
Illinois	97,995	29,985	26,860	34,850	714	5,195	365	26
Michigan	68,065	22,251	15,235	29,143	483	847	–	106
Wisconsin	37,593	13,896	9,456	13,295	480	405	–	61
East North Central	**374,523**	**120,006**	**84,403**	**156,761**	**2,704**	**9,937**	**427**	**285**
Minnesota	34,361	12,068	6,802	14,857	215	383	–	36
Iowa	25,423	9,963	5,533	9,360	202	351	–	14
Missouri	40,818	17,721	13,006	9,135	279	628	17	32
North Dakota	5,420	2,550	1,682	944	56	180	–	8
South Dakota	4,935	2,490	1,552	652	35	198	–	8
Nebraska	15,178	6,280	5,170	3,049	160	429	12	78
Kansas	22,411	8,230	7,449	6,407	148	173	–	4
West North Central	**148,546**	**59,302**	**41,194**	**44,404**	**1,095**	**2,342**	**29**	**180**
Delaware	6,205	1,782	1,294	2,714	405	3	–	7
Maryland and D.C.	41,684	13,262	11,373	16,305	314	12	362	56
Virginia	49,033	19,888	12,868	10,964	234	4,991	22	66
West Virginia	20,856	6,477	3,686	10,598	64	31	–	–
North Carolina	63,159	25,381	14,188	22,476	236	842	–	36
South Carolina	38,875	13,809	7,735	16,515	93	711	–	12
Georgia	54,405	21,503	13,411	18,994	279	155	56	7
Florida	92,757	46,076	26,582	17,310	568	2,100	–	121
South Atlantic	**366,974**	**148,178**	**91,137**	**115,876**	**2,193**	**8,845**	**440**	**305**
Kentucky	53,385	14,265	12,215	24,660	266	1,862	–	117
Tennessee	72,064	25,603	4,547	40,888	773	23	–	230
Alabama	52,033	17,270	7,127	27,214	288	49	–	85
Mississippi	23,502	9,823	5,062	8,016	190	386	–	25
East South Central	**200,984**	**66,961**	**28,951**	**100,778**	**1,517**	**2,320**	**–**	**457**
Arkansas	24,685	9,416	5,759	9,018	87	385	16	4
Louisiana	60,479	18,296	10,871	27,035	405	1,802	–	2,070
Oklahoma	32,410	13,050	9,111	8,557	125	1,565	–	2
Texas	182,830	59,335	44,137	75,234	832	3,187	–	105
West South Central	**300,404**	**100,097**	**69,878**	**119,844**	**1,449**	**6,939**	**16**	**2,181**
Montana	10,849	2,894	2,119	5,661	61	97	–	17
Idaho	15,604	5,167	4,144	6,027	43	219	–	4
Wyoming	7,165	1,502	2,692	2,887	21	49	–	14
Colorado	22,259	7,304	8,475	5,823	180	381	–	96
New Mexico	9,933	2,616	3,950	2,748	61	507	–	51
Arizona	26,480	9,389	8,945	7,268	134	631	–	113
Utah	11,264	3,293	3,659	3,800	65	442	–	5
Nevada	9,466	3,476	1,704	4,006	77	124	–	79
Mountain	**113,020**	**35,641**	**35,688**	**38,220**	**642**	**2,450**	**–**	**379**
Washington	74,691	26,444	13,178	32,707	298	933	11	1,120
Oregon	38,260	13,909	9,654	14,429	176	66	–	26
California	165,758	52,144	53,963	49,697	1,677	6,835	293	1,149
Pacific	**278,709**	**92,497**	**76,795**	**96,833**	**2,151**	**7,834**	**304**	**2,295**
Alaska	2,974	1,388	1,457	44	14	64	2	5
Hawaii	6,325	1,844	1,388	3,018	75	–	–	–
Alaska & Hawaii	**9,299**	**3,232**	**2,845**	**3,062**	**89**	**64**	**2**	**5**

r Revised.

TABLE 42A
ENERGY SALES – INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CLASS OF SERVICE
YEAR 1981 – KILOWATT-HOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**1,629,405**	**527,257**	**419,992**	**628,737**	**10,926**	**37,647**	**1,942**	**2,904**
Maine	7,927	2,948	1,553	3,219	62	145	–	–
New Hampshire	5,653	2,234	1,005	2,327	42	45	–	–
Vermont	3,205	1,380	573	1,131	16	105	–	–
Massachusetts	29,053	10,164	10,896	7,299	351	282	61	–
Rhode Island	5,008	1,794	1,673	1,363	74	104	–	–
Connecticut	20,289	7,874	6,702	5,498	215	–	–	–
New England	**71,135**	**26,394**	**22,402**	**20,837**	**760**	**681**	**61**	**–**
New York	90,875	29,585	32,919	25,075	669	2,441	147	39
New Jersey	48,960	15,775	16,665	16,059	428	–	7	26
Pennsylvania	98,082	30,046	20,454	46,143	557	149	670	63
Middle Atlantic	**237,917**	**75,406**	**70,038**	**87,277**	**1,654**	**2,590**	**824**	**128**
Ohio	106,765	29,036	21,009	53,167	636	2,855	45	17
Indiana	47,676	14,023	8,857	24,280	322	143	12	39
Illinois	89,748	25,426	24,263	33,912	708	5,086	352	1
Michigan	61,643	19,580	13,361	27,451	417	759	–	75
Wisconsin	32,561	10,971	8,381	12,417	414	355	–	23
East North Central	**338,393**	**99,036**	**75,871**	**151,227**	**2,497**	**9,198**	**409**	**155**
Minnesota	24,683	6,257	3,506	14,365	189	351	–	15
Iowa	18,870	5,985	4,295	8,142	186	262	–	–
Missouri	29,943	10,577	10,227	8,521	243	372	–	3
North Dakota	3,135	1,299	701	994	46	92	–	3
South Dakota	2,492	996	851	586	30	29	–	–
Nebraska	–	–	–	–	–	–	–	–
Kansas	15,440	5,130	4,842	5,179	142	144	–	3
West North Central	**94,563**	**30,244**	**24,422**	**37,787**	**836**	**1,250**	**–**	**24**
Delaware	4,484	1,217	1,087	2,148	25	–	–	7
Maryland and D.C.	40,517	12,365	10,871	16,561	312	10	325	73
Virginia	44,346	17,063	11,526	10,409	215	5,112	21	–
West Virginia	20,881	6,502	3,809	10,474	65	31	–	–
North Carolina	51,689	17,775	12,302	20,667	209	726	–	10
South Carolina	30,319	8,760	5,970	15,133	83	364	–	9
Georgia	40,377	12,169	10,169	17,652	258	68	61	–
Florida	75,430	37,046	21,345	14,374	459	2,120	–	86
South Atlantic	**308,043**	**112,897**	**77,079**	**107,418**	**1,626**	**8,431**	**407**	**185**
Kentucky	24,045	7,539	4,772	7,949	137	3,638	–	10
Tennessee	1,134	512	219	370	4	29	–	–
Alabama	29,903	9,471	5,649	14,653	129	–	–	1
Mississippi	12,916	4,469	3,263	4,721	89	374	–	–
East South Central	**67,998**	**21,991**	**13,903**	**27,693**	**359**	**4,041**	**–**	**11**
Arkansas	17,387	5,237	3,512	8,208	79	351	–	–
Louisiana	53,815	14,279	8,816	26,826	271	1,458	–	2,165
Oklahoma	24,115	8,621	6,137	7,725	123	1,509	–	–
Texas	154,664	44,133	35,266	71,620	705	2,939	–	1
West South Central	**249,981**	**72,270**	**53,731**	**114,379**	**1,178**	**6,257**	**–**	**2,166**
Montana	6,308	1,947	1,661	2,565	61	62	–	12
Idaho	14,421	4,273	3,824	6,282	38	4	–	–
Wyoming	5,216	939	914	3,322	22	6	–	13
Colorado	14,845	4,320	5,803	4,263	150	306	–	3
New Mexico	7,142	1,915	2,228	2,446	55	459	–	39
Arizona	16,694	5,471	5,293	5,543	89	298	–	–
Utah	9,285	2,686	2,224	3,895	53	426	–	1
Nevada	8,757	3,492	1,457	3,508	75	225	–	–
Mountain	**82,668**	**25,043**	**23,404**	**31,824**	**543**	**1,786**	**–**	**68**
Washington	20,329	11,045	5,592	3,587	105	–	–	–
Oregon	24,680	10,148	7,212	7,156	151	5	–	8
California	127,040	40,822	44,842	36,457	1,152	3,369	239	159
Pacific	**172,049**	**62,015**	**57,646**	**47,200**	**1,408**	**3,374**	**239**	**167**
Alaska	197	84	55	16	1	39	2	–
Hawaii	6,461	1,877	1,441	3,079	64	–	–	–
Alaska & Hawaii	**6,658**	**1,961**	**1,496**	**3,095**	**65**	**39**	**2**	**–**

TABLE 42B
ENERGY SALES – INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CLASS OF SERVICE
YEAR 1980r – KILOWATT-HOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**1,613,808**	**532,025**	**408,265**	**623,472**	**10,820**	**34,449**	**2,156**	**2,621**
Maine	7,752	2,931	1,517	3,105	65	134	–	–
New Hampshire	5,667	2,258	983	2,340	40	46	–	–
Vermont	3,010	1,292	556	1,047	14	101	–	–
Massachusetts	29,106	10,328	10,729	7,361	349	284	55	–
Rhode Island	5,076	1,827	1,672	1,402	71	104	–	–
Connecticut	20,289	7,961	6,568	5,540	220	–	–	–
New England	**70,900**	**26,597**	**22,025**	**20,795**	**759**	**669**	**55**	**–**
New York	90,683	29,850	32,411	25,060	666	2,496	168	32
New Jersey	49,174	16,201	16,363	16,159	417	–	7	27
Pennsylvania	97,435	30,236	19,907	45,631	550	224	827	60
Middle Atlantic	**237,292**	**76,287**	**68,681**	**86,850**	**1,633**	**2,720**	**1,002**	**119**
Ohio	106,933	29,732	20,672	52,828	622	3,011	48	20
Indiana	47,741	14,508	8,774	23,960	318	138	14	29
Illinois	90,685	26,268	24,144	34,076	684	5,147	365	1
Michigan	62,013	19,972	13,286	27,530	424	711	–	90
Wisconsin	32,178	10,991	8,325	12,053	429	357	–	23
East North Central	**339,550**	**101,471**	**75,201**	**150,447**	**2,477**	**9,364**	**427**	**163**
Minnesota	24,321	6,331	3,463	13,999	195	316	–	17
Iowa	19,187	6,390	4,358	7,985	187	267	–	–
Missouri	30,660	11,599	10,206	8,174	243	434	–	4
North Dakota	3,086	1,296	704	931	52	100	–	3
South Dakota	2,488	1,015	859	553	29	32	–	–
Nebraska	–	–	–	–	–	–	–	–
Kansas	15,907	5,701	4,845	5,072	141	146	–	2
West North Central	**95,649**	**32,332**	**24,435**	**36,714**	**847**	**1,295**	**–**	**26**
Delaware	4,972	1,329	1,123	2,484	26	3	–	7
Maryland and D.C.	39,906	12,233	10,740	16,195	310	10	362	56
Virginia	43,371	16,683	11,210	10,326	210	4,921	21	–
West Virginia	20,784	6,430	3,668	10,592	64	30	–	–
North Carolina	50,539	17,622	11,751	20,179	205	774	–	8
South Carolina	29,660	8,740	5,764	14,703	82	363	–	8
Georgia	39,349	12,124	9,764	17,089	249	67	56	–
Florida	73,574	35,887	20,682	14,427	453	2,034	–	91
South Atlantic	**302,155**	**111,048**	**74,702**	**105,995**	**1,599**	**8,202**	**439**	**170**
Kentucky	25,381	7,735	3,660	12,247	135	1,594	–	10
Tennessee	1,146	507	215	397	4	23	–	–
Alabama	29,652	9,511	5,515	14,499	126	–	–	1
Mississippi	13,006	4,578	3,210	4,758	91	369	–	–
East South Central	**69,185**	**22,331**	**12,600**	**31,901**	**356**	**1,986**	**–**	**11**
Arkansas	18,273	5,774	3,787	8,282	76	354	–	–
Louisiana	53,332	14,147	8,652	26,969	262	1,382	–	1,920
Oklahoma	24,392	9,196	6,008	7,539	121	1,528	–	–
Texas	152,169	45,381	34,201	68,791	709	3,086	–	'
West South Central	**248,166**	**74,498**	**52,648**	**111,581**	**1,168**	**6,350**	**–**	**1,921**
Montana	6,161	1,930	1,595	2,501	61	62	–	12
Idaho	13,772	4,306	3,488	5,940	36	2	–	–
Wyoming	4,584	845	833	2,869	19	7	–	11
Colorado	14,578	4,335	5,370	4,372	145	352	–	4
New Mexico	6,939	1,887	2,141	2,404	56	423	–	28
Arizona	15,171	5,130	4,967	4,733	87	254	–	–
Utah	8,892	2,559	2,104	3,768	54	407	–	–
Nevada	7,992	3,283	1,360	3,149	76	124	–	--
Mountain	**78,089**	**24,275**	**21,858**	**29,736**	**534**	**1,631**	**–**	**55**
Washington	19,882	10,830	5,387	3,563	102	–	–	–
Oregon	24,314	10,126	6,966	7,057	151	5	–	9
California	122,110	40,303	42,321	35,801	1,118	2,189	231	147
Pacific	**166,306**	**61,259**	**54,674**	**46,421**	**1,371**	**2,194**	**231**	**156**
Alaska	191	83	53	14	1	38	2	–
Hawaii	6,325	1,844	1,388	3,018	75	–	–	–
Alaska & Hawaii	**6,516**	**1,927**	**1,441**	**3,032**	**76**	**38**	**2**	**–**

r Revised.

TABLE 43
ENERGY SALES – TOTAL ELECTRIC UTILITY INDUSTRY
BY QUARTER AND CLASS OF SERVICE
1976–1981 – KILOWATT-HOURS IN MILLIONS

Year – Quarter	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
YEAR – 1981								
First Quarter	547,295	198,450	131,343	197,739	4,076	12,910	1,106	1,671
Second Quarter	510,855	162,864	128,783	200,456	3,536	12,550	1,001	1,665
Third Quarter	577,031	200,402	149,558	207,664	3,533	13,171	980	1,723
Fourth Quarter	518,615	174,008	131,742	194,026	3,830	12,424	1,004	1,581
Total	**2,153,796**	**735,724**	**541,426**	**799,885**	**14,975**	**51,055**	**4,091**	**6,640**
YEAR – 1980r								
First Quarter	541,213	195,081	127,121	200,014	3,924	12,401	1,102	1,570
Second Quarter	496,515	159,354	122,714	196,865	3,488	11,478	1,039	1,577
Third Quarter	570,696	208,225	146,316	197,511	3,493	12,499	1,049	1,603
Fourth Quarter	517,670	171,751	127,971	199,422	3,927	11,906	1,085	1,608
Total	**2,126,094**	**734,411**	**524,122**	**793,812**	**14,832**	**48,284**	**4,275**	**6,358**
YEAR – 1979r								
First Quarter	539,686	196,958	123,465	200,043	3,875	12,276	1,145	1,924
Second Quarter	496,338	153,062	117,830	207,124	3,465	11,764	1,044	2,049
Third Quarter	544,573	182,962	134,083	208,099	3,499	13,116	1,028	1,786
Fourth Quarter	503,803	163,014	119,345	202,351	3,953	12,448	1,039	1,653
Total	**2,084,400**	**695,996**	**494,723**	**817,617**	**14,792**	**49,604**	**4,256**	**7,412**
YEAR – 1978								
First Quarter	508,415	188,190	117,887	183,238	3,882	12,287	1,199	1,732
Second Quarter	472,323	147,997	112,615	194,198	3,390	11,367	1,005	1,751
Third Quarter	538,243	183,515	133,195	202,711	3,515	12,477	1,021	1,809
Fourth Quarter	498,837	159,454	117,051	201,994	4,016	13,378	1,111	1,833
Total	**2,017,818**	**679,156**	**480,748**	**782,141**	**14,803**	**49,509**	**4,336**	**7,125**
YEAR – 1977								
First Quarter	492,390	178,906	113,301	181,850	3,802	11,634	1,186	1,711
Second Quarter	460,222	140,685	110,807	191,522	3,316	11,144	993	1,755
Third Quarter	521,560	178,976	130,792	193,694	3,384	11,966	992	1,756
Fourth Quarter	476,619	153,778	114,327	190,102	3,916	11,498	1,041	1,957
Total	**1,950,791**	**652,345**	**469,227**	**757,168**	**14,418**	**46,242**	**4,212**	**7,179**
YEAR – 1976								
First Quarter	458,844	162,274	105,715	172,681	3,729	11,713	1,201	1,531
Second Quarter	434,038	133,413	104,113	179,821	3,330	10,772	999	1,590
Third Quarter	490,862	164,614	121,454	186,829	3,462	11,815	1,027	1,661
Fourth Quarter	465,881	152,771	109,343	185,838	3,892	11,325	1,111	1,601
Total	**1,849,625**	**613,072**	**440,625**	**725,169**	**14,413**	**45,625**	**4,338**	**6,383**

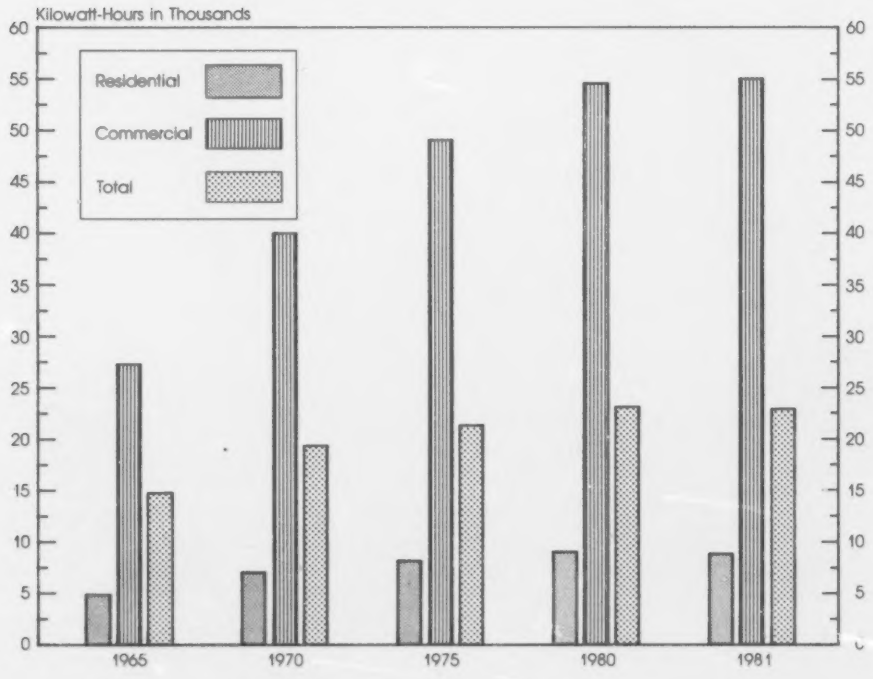
r Revised.

TABLE 44
AVERAGE ANNUAL KWHR USE PER CUSTOMER

TOTAL ELECTRIC UTILITY INDUSTRY				INVESTOR-OWNED ELECTRIC UTILITIES			
Year	Residential	Commercial	Total Ultimate Customers	Year	Residential	Commercial	Total Ultimate Customers
1981	**9,863**	**55,018**	**22,998**	**1981**	**8,311**	**55,708**	**22,754**
1980r	9,025	54,538	23,167	1980r	8,539	55,210	22,949
1979r	8,843	53,197	23,481	1979	8,360	54,594	23,287
1978	8,849	58,085	23,315	1978	8,430	54,653	23,197
1977	8,693	52,892	23,052	1977	8,279	54,520	22,938
1976	8,360	50,733	22,361	1976	7,969	52,560	22,263
1975	8,176	48,964	21,417	1975	7,855	50,966	21,305
1974	7,907	46,557	21,448	1974	7,574	48,426	21,343
1973	8,079	47,580	21,955	1973	7,769	49,550	21,989
1972	7,691	44,496	20,964	1972	7,413	46,565	21,002
1971	7,380	41,943	19,956	1971	7,062	43,596	19,917
1970	7,066	39,952	19,380	1970	6,720	41,272	19,167
1969	6,571	36,950	18,563	1969	6,253	38,025	18,305
1968	6,057	34,637	17,445	1968	5,727	35,549	17,159
1967	5,577	32,041	16,384	1967	5,241	32,492	15,930
1966	5,265	30,133	15,678	1966	4,962	30,671	15,287
1965	4,933	27,399	14,694	1965	4,647	27,958	14,347
1964	4,703	25,213	14,015	1964	4,416	25,518	13,628
1963	4,442	23,224	13,366	1963	4,173	23,444	12,913
1962	4,259	20,733	12,763	1962	3,960	20,902	12,292
1961	4,019	19,709	12,099	1961	3,747	19,849	11,641

Based on sales data in Tables 38 and 39, page 43, and average number of customers per year. r Revised.

Chart VI-D
AVERAGE KILOWATT-HOURS USED
TOTAL ELECTRIC UTILITY INDUSTRY



Based on Table 44, as shown above.

CUSTOMERS
SECTION VII

TABLE 47
ULTIMATE CUSTOMERS – TOTAL ELECTRIC UTILITY INDUSTRY
BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st

Year	Total Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
1981	**94,160,033**	**83,458,733**	**9,903,236**	**487,321**	**133,106**	**171,836**	**30**	**5,771**
1980r	92,653,471	82,153,162	9,698,809	484,652	142,724	168,120	30	5,974
1979r	89,771,985	79,620,180	9,386,572	477,874	124,228	158,098	30	5,003
1978	87,667,954	77,775,667	9,148,399	464,637	121,690	152,439	30	4,883
1977	85,590,212	75,923,145	8,943,732	448,009	120,594	149,934	28	4,770
1976	83,613,161	74,161,846	8,750,949	427,403	119,130	148,867	28	4,938
1975	81,844,890	72,570,187	8,591,108	414,665	116,555	147,387	29	4,959
1974	80,102,390	70,949,607	8,472,817	422,736	112,477	139,480	29	5,244
1973	78,461,251	69,438,429	8,361,847	413,383	108,787	133,619	46	5,140
1972	76,150,204	67,314,000	8,200,033	369,952	103,874	157,461	50	4,834
1971	74,265,071	65,650,046	8,002,572	355,967	96,252	155,414	48	4,772
1970	72,484,978	64,017,662	7,865,073	352,993	92,052	152,706	47	4,445
1969	70,929,138	62,598,910	7,744,851	348,648	86,678	145,071	49	4,931
1968	69,716,013	61,439,030	7,706,779	333,650	86,023	146,257	64	4,210
1967	68,167,525	60,033,404	7,579,626	324,222	82,445	143,870	65	3,893
1966	66,909,793	58,826,283	7,536,066	316,098	85,197	141,703	65	4,381
1965	65,557,520	57,596,016	7,419,956	309,615	84,925	141,532	66	5,410
1964	64,148,656	56,307,195	7,293,997	318,168	83,729	139,549	83	5,935
1963	62,857,451	55,073,055	7,232,065	320,732	79,816	145,184	117	6,482
1962	61,323,917	53,649,362	6,980,960	441,394	79,363	167,053	118	5,667
1961	60,130,180	52,569,050	6,843,592	515,389	63,459	135,653	94	2,943

*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.
r Revised.

TABLE 48
ULTIMATE CUSTOMERS – INVESTOR-OWNED ELECTRIC UTILITIES
BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st

Year	Total Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
1981	**72,057,868**	**63,842,784**	**7,584,132**	**382,801**	**112,477**	**135,165**	**23**	**486**
1980r	70,996,563	62,902,588	7,459,959	375,540	123,589	134,595	23	269
1979	69,581,540	61,676,402	7,290,125	372,407	108,149	134,171	23	263
1978	67,922,975	60,216,110	7,106,705	364,123	106,286	129,496	23	232
1977	66,294,706	58,770,646	6,942,201	349,563	105,442	126,611	21	222
1976	64,896,400	57,530,599	6,805,345	329,522	103,754	126,674	22	484
1975	63,650,468	56,409,122	6,690,374	322,429	101,937	126,100	23	483
1974	62,667,061	55,499,145	6,624,061	326,409	97,438	119,531	23	454
1973	61,435,986	54,370,297	6,531,953	324,236	94,682	114,315	24	479
1972	59,804,431	52,868,920	6,422,032	284,733	90,206	138,052	25	463
1971	58,204,164	51,415,155	6,294,907	274,329	86,714	132,573	25	461
1970	56,888,819	50,210,348	6,194,383	270,132	83,443	130,036	24	453
1969	55,714,225	49,134,168	6,111,945	265,331	78,903	123,399	25	454
1968	54,680,477	48,140,270	6,078,790	258,848	78,950	123,136	40	443
1967	53,560,415	47,115,644	5,994,228	255,375	75,419	119,263	41	445
1966	52,567,765	46,151,524	5,981,208	248,267	71,394	114,918	41	413
1965	51,505,592	45,166,904	5,911,683	242,818	68,421	115,303	43	420
1964	50,405,817	44,157,062	5,818,820	250,755	65,684	113,031	60	405
1963	49,312,316	43,141,839	5,739,739	252,250	60,631	117,387	65	405
1962	48,324,445	42,241,005	5,564,867	344,900	58,168	115,037	68	400
1961	47,387,717	41,384,226	5,440,519	394,449	54,818	113,394	50	361

*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.
r Revised.

TABLE 49
CUSTOMERS IN PERCENT OF TOTAL – TOTAL ELECTRIC UTILITY INDUSTRY
BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st

Year	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways*	Inter-departmental*
1981	**88.6%**	**10.5%**	**0.5%**	**0.2%**	**0.2%**	**0.0%**	**0.0%**
1980r	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1979r	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1978	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1977	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1976	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1975	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1974	88.6	10.6	0.5	0.1	0.2	0.0	0.0
1973	88.5	10.7	0.5	0.1	0.2	0.0	0.0
1972	88.4	10.8	0.5	0.1	0.2	0.0	0.0
1971	88.4	10.8	0.5	0.1	0.2	0.0	0.0
1970	88.3	10.9	0.5	0.1	0.2	0.0	0.0
1969	88.3	10.9	0.5	0.1	0.2	0.0	0.0
1968	88.1	11.1	0.5	0.1	0.2	0.0	0.0
1967	88.1	11.1	0.5	0.1	0.2	0.0	0.0
1966	87.9	11.3	0.5	0.1	0.2	0.0	0.0
1965	87.9	11.3	0.5	0.1	0.2	0.0	0.0
1964	87.8	11.4	0.5	0.1	0.2	0.0	0.0
1963	87.7	11.5	0.5	0.1	0.2	0.0	0.0
1962	87.5	11.4	0.7	0.1	0.3	0.0	0.0
1961	87.4	11.4	0.9	0.1	0.2	0.0	0.0

*Less than one-tenth of one percent. r Revised.
Based on customer data in Table 47.

TABLE 50A
ULTIMATE CUSTOMERS – TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CLASS OF SERVICE AT DECEMBER 31, 1981

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**94,160,033**	**83,458,733**	**9,903,236**	**487,321**	**133,106**	**171,836**	**30**	**5,771**
Maine	522,372	464,241	56,115	843	1,045	126	–	2
New Hampshire	419,776	367,841	48,625	1,520	1,253	537	–	–
Vermont	246,338	217,736	25,097	989	290	2,219	–	7
Massachusetts	2,245,218	2,013,968	212,319	11,434	4,375	3,093	1	28
Rhode Island	376,906	339,657	33,935	2,503	763	48	–	–
Connecticut	1,250,412	1,136,168	106,031	4,854	3,067	244	1	47
New England	**5,061,022**	**4,539,611**	**482,122**	**22,143**	**10,793**	**6,267**	**2**	**84**
New York	6,459,156	5,733,519	653,378	46,692	9,915	15,575	5	72
New Jersey	2,878,155	2,540,903	318,203	13,108	5,910	24	1	6
Pennsylvania	4,723,286	4,232,090	454,029	30,483	6,000	665	4	15
Middle Atlantic	**14,060,597**	**12,506,512**	**1,425,610**	**90,283**	**21,825**	**16,264**	**10**	**93**
Ohio	4,370,995	3,941,292	388,862	24,683	5,796	10,133	2	227
Indiana	2,220,110	1,993,249	205,036	18,338	2,204	1,256	1	26
Illinois	4,566,713	4,146,778	401,164	5,570	2,632	10,548	2	19
Michigan	3,751,198	3,392,204	338,319	14,944	2,264	3,303	–	164
Wisconsin	2,022,372	1,818,201	195,843	3,302	3,323	1,582	–	121
East North Central	**16,931,388**	**15,291,724**	**1,529,224**	**66,837**	**16,219**	**26,822**	**5**	**557**
Minnesota	1,712,769	1,538,748	161,947	6,473	2,030	3,473	–	98
Iowa	1,261,432	1,104,202	146,764	3,990	1,042	5,258	–	176
Missouri	2,130,486	1,896,340	218,608	8,204	2,301	4,920	1	112
North Dakota	290,789	249,898	38,343	1,351	584	605	–	8
South Dakota	304,327	263,296	39,195	997	288	527	–	24
Nebraska	878,793	729,057	139,552	2,032	997	6,766	1	388
Kansas	1,056,927	911,921	133,127	8,987	1,174	1,645	–	73
West North Central	**7,635,523**	**6,693,462**	**877,536**	**32,034**	**8,416**	**23,194**	**2**	**879**
Delaware	243,201	222,234	20,204	641	121	–	–	1
Maryland and D.C.	1,738,139	1,567,555	165,507	4,228	739	99	3	8
Virginia	2,085,175	1,876,338	184,097	3,696	1,726	19,207	1	110
West Virginia	804,691	712,729	81,523	9,008	915	509	–	7
North Carolina	2,517,319	2,209,653	288,043	11,646	5,653	2,242	–	82
South Carolina	1,298,440	1,140,964	147,390	3,459	3,063	3,212	–	352
Georgia	2,250,850	2,026,037	208,623	13,172	1,790	1,179	1	48
Florida	4,879,830	4,362,252	484,607	21,724	3,888	7,242	–	117
South Atlantic	**15,817,645**	**14,117,762**	**1,579,994**	**67,574**	**17,895**	**33,690**	**5**	**725**
Kentucky	1,489,602	1,325,935	145,784	6,513	4,006	7,331	–	33
Tennessee	1,918,642	1,714,896	184,415	17,199	2,067	44	–	21
Alabama	1,640,995	1,453,621	177,586	8,293	1,206	230	–	59
Mississippi	994,868	871,320	114,658	5,729	891	2,261	–	9
East South Central	**6,044,107**	**5,365,772**	**622,443**	**37,734**	**8,170**	**9,866**	**–**	**122**
Arkansas	1,041,605	916,361	107,008	14,721	493	3,012	1	9
Louisiana	1,707,126	1,514,445	167,346	15,455	2,112	7,715	–	53
Oklahoma	1,428,633	1,246,886	160,766	12,564	1,103	7,292	–	22
Texas	6,001,357	5,190,887	732,768	54,740	2,644	20,123	–	195
West South Central	**10,178,721**	**8,868,579**	**1,167,888**	**97,480**	**6,352**	**38,142**	**1**	**279**
Montana	378,574	322,241	52,106	2,386	1,451	144	–	246
Idaho	434,315	366,310	62,369	5,020	517	91	–	8
Wyoming	235,670	193,807	38,534	2,183	270	797	–	79
Colorado	1,357,918	1,179,546	172,722	3,423	668	1,160	–	399
New Mexico	538,290	461,670	71,290	4,339	90	847	–	54
Arizona	1,129,113	981,760	139,561	4,692	1,357	1,727	–	16
Utah	529,827	472,123	48,265	7,791	1,384	243	–	21
Nevada	366,072	325,976	39,598	208	224	65	–	1
Mountain	**4,969,779**	**4,303,433**	**624,445**	**30,042**	**5,961**	**5,074**	**–**	**824**
Washington	1,849,609	1,644,060	191,765	5,213	3,331	5,199	1	40
Oregon	1,200,694	1,048,395	146,947	1,582	3,258	440	–	72
California	9,949,859	8,681,340	1,195,914	35,571	28,951	6,071	3	2,009
Pacific	**13,000,162**	**11,373,795**	**1,534,626**	**42,366**	**35,540**	**11,710**	**4**	**2,121**
Alaska	155,162	133,041	20,645	137	444	807	1	87
Hawaii	305,927	265,042	38,703	691	1,491	–	–	–
Alaska & Hawaii	**461,089**	**398,083**	**59,348**	**828**	**1,935**	**807**	**1**	**87**

TABLE 50B
ULTIMATE CUSTOMERS – TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CLASS OF SERVICE AT DECEMBER 31, 1980r

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**92,653,471**	**82,153,162**	**9,698,809**	**484,652**	**142,724**	**168,120**	**30**	**5,974**
Maine	536,897	463,787	56,495	862	15,627	124	–	2
New Hampshire	412,563	362,044	47,153	1,585	1,240	541	–	–
Vermont	235,707	208,850	23,717	956	282	1,896	–	6
Massachusetts	2,225,458	1,996,979	210,086	11,306	3,804	3,140	1	142
Rhode Island	370,869	334,626	33,600	2,458	171	14	–	–
Connecticut	1,237,509	1,124,802	104,977	4,863	2,571	258	1	37
New England	**5,019,003**	**4,491,088**	**476,028**	**22,030**	**23,695**	**5,973**	**2**	**187**
New York	6,421,665	5,701,363	641,030	54,700	8,948	15,548	5	71
New Jersey	2,857,399	2,533,893	305,834	12,159	5,482	24	1	6
Pennsylvania	4,687,661	4,200,441	450,564	30,028	5,776	833	4	15
Middle Atlantic	**13,966,725**	**12,435,697**	**1,397,428**	**96,887**	**20,206**	**16,405**	**10**	**92**
Ohio	4,346,352	3,919,602	385,479	23,975	5,737	11,338	2	219
Indiana	2,203,409	1,977,932	203,994	18,160	2,047	1,249	1	26
Illinois	4,539,204	4,124,152	396,577	5,432	2,624	10,400	2	17
Michigan	3,733,072	3,378,463	334,172	14,834	2,236	3,204	–	163
Wisconsin	2,001,737	1,800,875	192,529	3,292	3,339	1,585	–	117
East North Central	**16,823,774**	**15,201,024**	**1,512,751**	**65,693**	**15,983**	**27,776**	**5**	**542**
Minnesota	1,729,014	1,548,629	166,044	6,924	3,730	3,598	–	89
Iowa	1,257,752	1,101,235	146,091	4,016	1,035	5,201	–	174
Missouri	2,113,527	1,881,665	216,252	8,408	2,249	4,842	1	110
North Dakota	285,626	245,249	37,928	1,253	585	603	–	8
South Dakota	302,584	261,738	38,970	994	336	522	–	24
Nebraska	779,036	652,289	118,293	1,603	859	5,610	1	381
Kansas	1,040,269	897,519	131,482	8,486	1,099	1,611	–	72
West North Central	**7,507,808**	**6,588,324**	**855,060**	**31,684**	**9,893**	**21,987**	**2**	**858**
Delaware	240,922	220,453	19,695	651	122	–	–	1
Maryland and D.C.	1,724,765	1,555,530	164,276	4,084	773	91	3	8
Virginia	2,035,239	1,832,105	179,508	3,598	1,593	18,327	1	107
West Virginia	795,513	705,316	80,072	8,801	873	451	–	–
North Carolina	2,467,553	2,163,841	284,048	11,372	5,566	2,649	–	77
South Carolina	1,270,458	1,115,393	145,210	3,345	3,037	3,131	–	342
Georgia	2,191,805	1,972,029	203,763	13,069	1,751	1,145	1	47
Florida	4,703,947	4,206,827	463,910	22,646	3,540	6,910	–	114
South Atlantic	**15,430,202**	**13,771,494**	**1,540,482**	**67,566**	**17,255**	**32,704**	**5**	**696**
Kentucky	1,472,061	1,311,879	141,319	7,685	3,921	7,225	–	32
Tennessee	1,887,534	1,686,220	180,946	18,198	2,098	49	–	23
Alabama	1,721,718	1,535,611	176,661	8,001	1,162	228	–	55
Mississippi	981,137	858,980	113,430	5,656	888	2,174	–	9
East South Central	**6,062,450**	**5,392,690**	**612,356**	**39,540**	**8,069**	**9,676**	**–**	**119**
Arkansas	1,033,408	909,082	107,649	13,238	503	2,926	1	9
Louisiana	1,662,657	1,473,738	167,104	12,218	2,060	7,485	–	52
Oklahoma	1,387,832	1,213,191	154,820	11,394	1,121	7,285	–	21
Texas	5,713,433	4,937,609	702,969	50,061	2,598	20,010	–	186
West South Central	**9,797,330**	**8,533,620**	**1,132,542**	**86,911**	**6,282**	**37,706**	**1**	**268**
Montana	373,602	316,189	53,384	2,385	1,447	147	–	50
Idaho	417,176	361,992	53,363	1,400	342	64	–	15
Wyoming	232,216	186,485	42,810	1,894	229	720	–	78
Colorado	1,320,157	1,147,440	164,787	5,788	658	1,265	–	219
New Mexico	519,947	444,554	70,074	4,169	102	952	–	96
Arizona	1,077,393	955,615	114,142	4,972	1,135	1,265	–	264
Utah	514,758	459,369	46,860	6,797	1,374	337	–	21
Nevada	351,116	312,946	37,701	201	219	48	–	1
Mountain	**4,806,365**	**4,184,590**	**583,121**	**27,606**	**5,506**	**4,798**	**–**	**744**
Washington	1,797,626	1,594,045	188,051	8,487	3,163	3,726	1	153
Oregon	1,217,764	1,038,225	175,041	1,695	2,272	463	–	68
California	9,772,885	8,533,391	1,166,944	35,836	28,499	6,049	3	2,163
Pacific	**12,788,275**	**11,165,661**	**1,530,036**	**46,018**	**33,934**	**10,238**	**4**	**2,384**
Alaska	152,377	130,657	20,327	43	408	857	1	84
Hawaii	299,162	258,317	38,678	674	1,493	–	–	–
Alaska & Hawaii	**451,539**	**388,974**	**59,005**	**717**	**1,901**	**857**	**1**	**84**

r Revised.

TABLE 51A
ULTIMATE CUSTOMERS – INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CLASS OF SERVICE AT DECEMBER 31, 1981

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**72,057,868**	**63,842,784**	**7,584,132**	**382,801**	**112,477**	**135,165**	**23**	**486**
Maine	497,880	442,819	53,207	727	1,036	91	–	–
New Hampshire	366,807	322,421	41,137	1,471	1,248	530	–	–
Vermont	187,013	165,257	18,619	686	267	2,184	–	–
Massachusetts	1,952,885	1,750,148	188,350	7,705	4,273	2,408	1	–
Rhode Island	373,956	336,942	33,718	2,487	762	47	–	–
Connecticut	1,195,832	1,087,861	100,256	4,697	3,017	–	1	–
New England	**4,574,373**	**4,105,448**	**435,287**	**17,773**	**10,603**	**5,260**	**2**	**–**
New York	6,323,814	5,615,109	639,413	45,095	9,696	14,494	4	3
New Jersey	2,826,488	2,495,321	312,934	12,335	5,896	–	1	1
Pennsylvania	4,504,465	4,028,427	439,490	30,072	5,925	545	4	2
Middle Atlantic	**13,654,767**	**12,138,857**	**1,391,837**	**87,502**	**21,517**	**15,039**	**9**	**6**
Ohio	3,838,124	3,456,663	344,314	22,304	5,671	9,158	2	12
Indiana	1,708,761	1,517,776	171,953	15,894	2,162	973	1	2
Illinois	4,151,880	3,766,768	367,173	4,912	2,603	10,418	2	4
Michigan	3,321,448	3,013,441	293,371	11,195	1,910	1,529	–	2
Wisconsin	1,675,427	1,501,588	167,157	2,426	3,146	1,089	–	21
East North Central	**14,695,640**	**13,256,236**	**1,343,968**	**56,731**	**15,492**	**23,167**	**5**	**41**
Minnesota	1,041,825	922,631	109,317	5,114	1,859	2,902	–	2
Iowa	921,169	794,728	118,780	2,579	863	4,218	–	1
Missouri	1,431,709	1,258,050	160,769	6,611	1,990	4,243	–	46
North Dakota	187,510	159,032	26,090	1,251	580	555	–	2
South Dakota	162,484	137,306	24,154	374	272	378	–	–
Nebraska	–	–	–	–	–	–	–	–
Kansas	698,768	614,677	74,975	6,781	1,082	1,241	–	12
West North Central	**4,443,465**	**3,886,424**	**514,085**	**22,710**	**6,646**	**13,537**	**–**	**63**
Delaware	179,942	163,134	16,211	479	117	–	–	1
Maryland and D.C.	1,620,288	1,460,102	155,369	4,040	727	46	3	1
Virginia	1,742,405	1,561,760	157,361	3,168	1,632	18,483	1	–
West Virginia	796,979	705,931	80,625	8,993	915	508	–	7
North Carolina	1,716,803	1,479,146	221,155	9,359	5,508	1,611	–	24
South Carolina	818,105	704,125	106,972	3,246	2,116	1,632	–	14
Georgia	1,339,578	1,182,976	142,319	12,094	1,646	542	1	–
Florida	3,719,918	3,328,910	359,827	20,490	3,630	7,042	–	19
South Atlantic	**11,934,018**	**10,586,084**	**1,239,839**	**61,869**	**16,291**	**29,864**	**5**	**66**
Kentucky	865,300	753,332	96,953	4,232	3,725	7,056	–	2
Tennessee	34,354	30,801	3,285	122	102	44	–	–
Alabama	994,863	873,646	116,476	4,131	609	–	–	1
Mississippi	471,656	403,265	62,146	3,703	429	2,113	–	–
East South Central	**2,366,173**	**2,061,044**	**278,860**	**12,188**	**4,865**	**9,213**	**–**	**3**
Arkansas	629,390	542,850	69,037	14,163	481	2,859	–	–
Louisiana	1,300,591	1,148,602	127,514	14,986	2,057	7,430	–	2
Oklahoma	978,655	857,523	101,693	11,401	1,047	6,991	–	–
Texas	4,310,433	3,733,553	507,913	47,793	2,326	18,847	–	1
West South Central	**7,219,069**	**6,282,528**	**806,157**	**88,343**	**5,911**	**36,127**	**–**	**3**
Montana	279,658	238,040	37,457	2,378	1,436	132	–	215
Idaho	360,353	302,743	52,178	4,884	507	41	–	–
Wyoming	151,385	127,747	21,210	2,176	164	85	–	3
Colorado	871,316	773,139	95,427	1,786	383	558	–	23
New Mexico	374,084	329,754	39,696	3,799	84	732	–	19
Arizona	671,041	567,235	97,702	4,203	928	972	–	1
Utah	412,293	369,439	33,820	7,662	1,324	45	–	3
Nevada	340,250	305,689	34,225	149	141	46	–	–
Mountain	**3,460,380**	**3,013,786**	**411,715**	**27,037**	**4,967**	**2,611**	**–**	**264**
Washington	817,094	732,605	80,477	2,685	1,327	–	–	–
Oregon	934,648	818,440	113,075	1,263	1,807	57	–	6
California	7,637,388	6,683,777	928,184	3,912	21,449	34	1	31
Pacific	**9,389,130**	**8,234,822**	**1,121,736**	**7,860**	**24,583**	**91**	**1**	**37**
Alaska	14,926	12,513	1,945	97	111	256	1	3
Hawaii	305,927	265,042	38,703	691	1,491	–	–	–
Alaska & Hawaii	**320,853**	**277,555**	**40,648**	**788**	**1,602**	**256**	**1**	**3**

TABLE 51B
ULTIMATE CUSTOMERS – INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CLASS OF SERVICE AT DECEMBER 31, 1980r

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**70,996,563**	**62,902,588**	**7,459,959**	**375,540**	**123,589**	**134,595**	**23**	**269**
Maine	512,421	442,379	53,589	746	15,618	89	–	–
New Hampshire	360,039	316,977	39,756	1,537	1,235	534	–	–
Vermont	181,431	160,836	17,791	679	261	1,864	–	–
Massachusetts	1,944,923	1,742,740	187,992	7,627	3,704	2,859	1	–
Rhode Island	367,974	331,961	33,388	2,442	170	13	–	–
Connecticut	1,183,346	1,076,783	99,319	4,707	2,536	–	1	–
New England	**4,550,134**	**4,071,676**	**431,835**	**17,738**	**23,524**	**5,359**	**2**	**–**
New York	6,287,422	5,583,981	627,119	53,124	8,730	14,461	4	3
New Jersey	2,805,698	2,488,233	300,606	11,389	5,468	–	1	1
Pennsylvania	4,471,112	3,998,892	436,176	29,622	5,702	714	4	2
Middle Atlantic	**13,564,232**	**12,071,106**	**1,363,901**	**94,135**	**19,900**	**15,175**	**9**	**6**
Ohio	3,816,710	3,437,925	341,192	21,604	5,613	10,369	2	5
Indiana	1,696,442	1,506,529	171,200	15,737	2,005	968	1	2
Illinois	4,126,521	3,746,203	362,667	4,781	2,595	10,271	2	2
Michigan	3,306,464	3,002,616	289,356	11,166	1,854	1,470	–	2
Wisconsin	1,660,105	1,489,130	164,277	2,438	3,163	1,078	–	19
East North Central	**14,606,242**	**13,182,403**	**1,328,692**	**55,726**	**15,230**	**24,156**	**5**	**30**
Minnesota	1,026,366	909,391	105,463	5,075	3,575	2,860	–	2
Iowa	916,672	791,131	117,903	2,614	856	4,168	–	–
Missouri	1,426,292	1,253,533	159,776	6,818	1,953	4,167	–	45
North Dakota	184,082	155,911	25,880	1,154	581	554	–	2
South Dakota	161,929	136,804	24,055	376	320	374	–	–
Nebraska	–	–	–	–	–	–	–	–
Kansas	687,601	604,803	74,252	6,312	1,008	1,214	–	12
West North Central	**4,402,942**	**3,851,573**	**507,329**	**22,349**	**8,293**	**13,337**	**–**	**61**
Delaware	177,779	161,462	15,709	489	118	–	–	1
Maryland and D.C.	1,609,801	1,450,710	154,387	3,900	761	39	3	1
Virginia	1,703,477	1,527,505	153,760	3,090	1,500	17,621	1	–
West Virginia	787,889	698,595	79,185	8,786	873	450	–	–
North Carolina	1,684,733	1,449,467	218,654	9,134	5,428	2,031	–	19
South Carolina	803,755	690,739	106,170	3,139	2,112	1,584	–	11
Georgia	1,304,489	1,151,108	139,250	11,991	1,613	526	1	–
Florida	3,591,493	3,214,176	345,793	21,507	3,285	6,712	–	20
South Atlantic	**11,663,416**	**10,343,762**	**1,212,908**	**62,036**	**15,690**	**28,963**	**5**	**52**
Kentucky	857,139	747,807	93,300	5,441	3,636	6,953	–	2
Tennessee	33,877	30,334	3,257	119	118	49	–	–
Alabama	985,941	865,394	115,974	3,970	602	–	–	1
Mississippi	465,169	397,551	61,535	3,631	424	2,028	–	–
East South Central	**2,342,126**	**2,041,086**	**274,066**	**13,161**	**4,780**	**9,030**	**–**	**3**
Arkansas	633,174	546,432	70,793	12,683	491	2,775	–	–
Louisiana	1,270,456	1,121,059	128,418	11,762	2,007	7,208	–	2
Oklahoma	951,377	835,529	97,525	10,265	1,066	6,992	–	–
Texas	4,104,167	3,550,580	489,184	43,291	2,311	18,800	–	1
West South Central	**6,959,174**	**6,053,600**	**785,920**	**78,001**	**5,875**	**35,775**	**–**	**3**
Montana	277,147	234,708	38,478	2,380	1,435	133	–	13
Idaho	343,677	298,812	43,266	1,265	328	6	–	–
Wyoming	151,610	123,280	26,276	1,886	126	38	–	4
Colorado	849,633	754,293	90,059	4,203	377	679	–	22
New Mexico	362,617	318,139	39,798	3,652	96	871	–	61
Arizona	640,428	560,799	74,368	4,061	701	498	–	1
Utah	400,362	359,427	32,802	6,672	1,315	143	–	3
Nevada	326,788	293,840	32,631	144	143	30	–	–
Mountain	**3,352,262**	**2,943,298**	**377,678**	**24,263**	**4,521**	**2,398**	**–**	**104**
Washington	805,244	714,174	87,492	2,248	1,330	–	–	–
Oregon	955,518	810,514	141,445	1,388	2,099	67	–	5
California	7,482,166	6,549,340	908,189	3,818	20,779	34	1	5
Pacific	**9,242,928**	**8,074,028**	**1,137,126**	**7,454**	**24,208**	**101**	**1**	**10**
Alaska	13,945	11,739	1,826	3	75	301	1	–
Hawaii	299,162	258,317	38,678	674	1,493	–	–	–
Alaska & Hawaii	**313,107**	**270,056**	**40,504**	**677**	**1,568**	**301**	**1**	**–**

r Revised.

TABLE 52A
AVERAGE NUMBER OF CUSTOMERS – TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CERTAIN CLASS OF SERVICE – YEAR 1981

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**93,649,414**	**83,007,708**	**9,840,909**
Maine	524,680	465,580	57,072
New Hampshire	418,549	367,032	48,179
Vermont	255,550	226,441	25,569
Massachusetts	2,240,819	2,010,264	211,571
Rhode Island	374,723	337,610	33,845
Connecticut	1,244,778	1,131,073	105,738
New England	**5,059,099**	**4,538,000**	**481,974**
New York	6,445,565	5,720,946	652,743
New Jersey	2,871,503	2,534,140	318,329
Pennsylvania	4,707,625	4,216,651	453,746
Middle Atlantic	**14,024,693**	**12,471,737**	**1,424,818**
Ohio	4,360,005	3,931,333	387,941
Indiana	2,216,400	1,989,291	205,237
Illinois	4,556,247	4,138,141	399,423
Michigan	3,743,545	3,386,527	336,325
Wisconsin	2,013,001	1,810,263	194,383
East North Central	**16,889,198**	**15,255,555**	**1,523,309**
Minnesota	1,712,268	1,538,319	160,752
Iowa	1,261,887	1,104,754	146,696
Missouri	2,135,392	1,900,773	218,648
North Dakota	288,788	248,010	38,318
South Dakota	304,452	263,184	39,432
Nebraska	813,076	678,894	125,284
Kansas	1,052,936	908,130	133,163
West North Central	**7,568,799**	**6,642,064**	**862,293**
Delaware	242,411	221,592	20,056
Maryland and D.C.	1,729,692	1,559,818	164,863
Virginia	2,071,669	1,864,316	183,078
West Virginia	799,667	708,578	80,905
North Carolina	2,511,498	2,200,944	289,104
South Carolina	1,294,142	1,136,988	147,164
Georgia	2,236,184	2,012,887	207,199
Florida	4,810,312	4,296,764	479,419
South Atlantic	**15,695,575**	**14,001,887**	**1,571,788**
Kentucky	1,493,933	1,331,663	144,479
Tennessee	1,909,647	1,706,762	183,407
Alabama	1,635,002	1,447,785	177,523
Mississippi	989,709	866,709	114,107
East South Central	**6,028,291**	**5,352,919**	**619,516**
Arkansas	1,056,817	927,971	108,835
Louisiana	1,694,902	1,502,873	166,635
Oklahoma	1,418,954	1,239,061	159,410
Texas	5,907,605	5,106,785	723,953
West South Central	**10,078,278**	**8,776,690**	**1,158,833**
Montana	377,936	319,809	52,777
Idaho	431,356	367,554	59,752
Wyoming	240,418	195,884	41,285
Colorado	1,346,467	1,169,486	169,170
New Mexico	536,582	459,333	71,927
Arizona	1,124,535	993,425	123,002
Utah	522,548	465,701	47,875
Nevada	360,090	320,726	38,866
Mountain	**4,939,932**	**4,291,918**	**604,654**
Washington	1,815,322	1,612,277	187,891
Oregon	1,213,223	1,046,830	161,916
California	9,874,282	8,618,809	1,183,796
Pacific	**12,902,827**	**11,277,916**	**1,533,603**
Alaska	156,717	134,431	20,890
Hawaii	306,005	264,591	39,231
Alaska & Hawaii	**462,722**	**399,022**	**60,121**

TABLE 52B
AVERAGE NUMBER OF CUSTOMERS – TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CERTAIN CLASS OF SERVICE – YEAR 1980r

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**91,771,166**	**81,376,887**	**9,610,256**
Maine	524,378	460,810	56,713
New Hampshire	413,560	363,192	46,989
Vermont	234,067	207,278	23,621
Massachusetts	2,202,536	1,975,304	209,165
Rhode Island	368,632	332,595	33,456
Connecticut	1,232,185	1,119,468	104,982
New England	**4,975,358**	**4,458,647**	**474,926**
New York	6,404,445	5,684,138	648,975
New Jersey	2,854,017	2,528,474	307,371
Pennsylvania	4,661,704	4,175,866	448,181
Middle Atlantic	**13,920,166**	**12,388,478**	**1,404,527**
Ohio	4,328,444	3,902,350	385,176
Indiana	2,196,233	1,971,529	203,314
Illinois	4,523,131	4,110,326	394,297
Michigan	3,718,101	3,365,162	333,134
Wisconsin	1,983,131	1,784,031	190,933
East North Central	**16,749,040**	**15,133,398**	**1,506,854**
Minnesota	1,676,802	1,506,258	156,993
Iowa	1,253,213	1,097,231	145,625
Missouri	2,096,867	1,868,615	212,714
North Dakota	283,610	243,387	37,776
South Dakota	301,604	260,671	39,075
Nebraska	772,384	646,573	117,439
Kansas	1,033,174	891,828	130,317
West North Central	**7,417,654**	**6,514,563**	**839,939**
Delaware	247,604	226,102	20,646
Maryland and D.C.	1,689,514	1,523,539	161,210
Virginia	2,008,188	1,807,916	177,164
West Virginia	790,117	700,842	79,418
North Carolina	2,452,398	2,149,656	283,198
South Carolina	1,260,943	1,107,160	143,967
Georgia	2,174,721	1,957,185	201,565
Florida	4,592,302	4,105,336	455,421
South Atlantic	**15,215,787**	**13,577,736**	**1,522,589**
Kentucky	1,472,284	1,312,328	141,378
Tennessee	1,874,308	1,674,250	179,768
Alabama	1,709,925	1,525,088	175,411
Mississippi	978,133	856,519	112,909
East South Central	**6,034,650**	**5,368,185**	**609,466**
Arkansas	1,020,511	895,845	106,185
Louisiana	1,644,106	1,457,316	164,899
Oklahoma	1,374,707	1,201,985	153,368
Texas	5,599,430	4,836,376	690,240
West South Central	**9,638,754**	**8,391,522**	**1,114,692**
Montana	370,881	312,883	52,937
Idaho	418,582	358,210	57,303
Wyoming	228,356	183,453	42,035
Colorado	1,298,848	1,128,837	162,194
New Mexico	512,412	438,017	69,143
Arizona	1,046,912	927,634	111,693
Utah	509,450	453,572	46,549
Nevada	343,101	305,189	36,841
Mountain	**4,728,542**	**4,107,795**	**578,695**
Washington	1,775,523	1,573,723	185,680
Oregon	1,199,761	1,025,417	169,931
California	9,668,763	8,452,123	1,144,518
Pacific	**12,644,047**	**11,051,263**	**1,500,129**
Alaska	151,627	130,159	20,193
Hawaii	295,541	255,141	38,246
Alaska & Hawaii	**447,168**	**385,300**	**58,439**

r Revised.

TABLE 53A
AVERAGE NUMBER OF CUSTOMERS – INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CERTAIN CLASS OF SERVICE – YEAR 1981

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**71,609,595**	**63,438,487**	**7,539,206**
Maine	499,972	443,965	54,143
New Hampshire	365,297	321,341	40,679
Vermont	196,102	173,841	19,089
Massachusetts	1,949,113	1,746,678	187,960
Rhode Island	371,773	334,895	33,628
Connecticut	1,190,321	1,082,861	100,008
New England	**4,572,578**	**4,103,581**	**435,507**
New York	6,310,177	5,602,535	638,743
New Jersey	2,819,622	2,488,323	313,083
Pennsylvania	4,488,804	4,012,987	439,206
Middle Atlantic	**13,618,603**	**12,103,845**	**1,391,032**
Ohio	3,826,128	3,445,794	343,304
Indiana	1,703,418	1,512,355	171,983
Illinois	4,139,695	3,756,592	365,252
Michigan	3,312,823	3,006,949	291,198
Wisconsin	1,665,151	1,492,777	165,671
East North Central	**14,647,215**	**13,214,467**	**1,337,408**
Minnesota	1,038,364	919,356	107,995
Iowa	918,457	792,457	118,369
Missouri	1,435,596	1,261,231	161,035
North Dakota	185,061	156,797	25,964
South Dakota	162,334	136,998	24,312
Nebraska	–	–	–
Kansas	693,603	610,062	74,686
West North Central	**4,433,415**	**3,876,901**	**512,361**
Delaware	178,866	162,212	16,057
Maryland and D.C.	1,610,992	1,451,588	154,654
Virginia	1,728,366	1,549,112	156,432
West Virginia	791,933	701,761	80,004
North Carolina	1,706,648	1,468,047	222,135
South Carolina	813,188	699,160	107,112
Georgia	1,320,643	1,165,579	140,852
Florida	3,645,090	3,258,803	354,533
South Atlantic	**11,795,726**	**10,456,262**	**1,231,779**
Kentucky	869,295	757,674	96,735
Tennessee	34,122	30,565	3,285
Alabama	989,970	869,019	116,314
Mississippi	468,883	400,752	61,912
East South Central	**2,362,270**	**2,058,010**	**278,246**
Arkansas	642,339	552,381	70,684
Louisiana	1,288,933	1,137,834	126,565
Oklahoma	966,010	847,267	99,802
Texas	4,215,299	3,649,144	497,978
West South Central	**7,112,581**	**6,186,626**	**795,029**
Montana	278,783	235,805	37,693
Idaho	355,157	302,052	49,278
Wyoming	154,870	128,799	23,726
Colorado	857,674	761,241	91,519
New Mexico	369,756	325,113	39,996
Arizona	674,185	587,196	80,959
Utah	404,761	362,813	33,381
Nevada	334,184	300,388	33,455
Mountain	**3,429,370**	**3,003,407**	**390,007**
Washington	810,879	722,454	83,885
Oregon	942,239	815,641	123,385
California	7,564,687	6,620,898	919,500
Pacific	**9,317,805**	**8,158,993**	**1,126,770**
Alaska	14,027	11,804	1,836
Hawaii	306,005	264,591	39,231
Alaska & Hawaii	**320,032**	**276,395**	**41,067**

TABLE 53B
AVERAGE NUMBER OF CUSTOMERS – INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CERTAIN CLASS OF SERVICE – YEAR 1980r

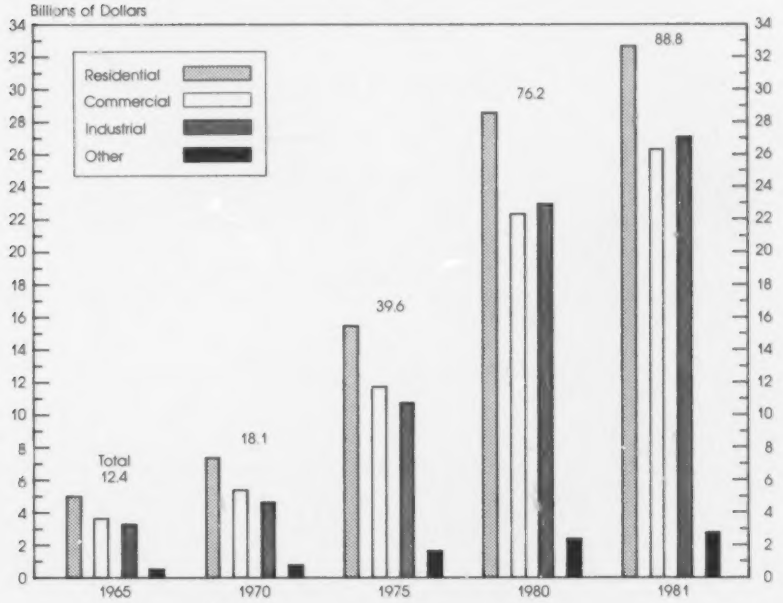
Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**70,320,488**	**62,306,492**	**7,394,763**
Maine	499,919	439,416	53,809
New Hampshire	361,077	318,161	39,597
Vermont	180,036	159,481	17,721
Massachusetts	1,918,436	1,718,371	186,202
Rhode Island	365,680	329,883	33,234
Connecticut	1,178,502	1,071,858	99,398
New England	**4,503,650**	**4,037,170**	**429,961**
New York	6,270,989	5,567,500	635,092
New Jersey	2,802,805	2,483,248	302,194
Pennsylvania	4,445,351	3,974,502	433,806
Middle Atlantic	**13,519,145**	**12,025,250**	**1,371,092**
Ohio	3,803,081	3,424,568	341,252
Indiana	1,690,059	1,500,842	170,590
Illinois	4,114,837	3,736,342	360,804
Michigan	3,295,027	2,992,500	288,076
Wisconsin	1,643,373	1,473,947	162,796
East North Central	**14,546,377**	**13,128,199**	**1,323,518**
Minnesota	1,018,554	902,259	104,940
Iowa	912,361	787,338	117,454
Missouri	1,410,776	1,241,371	156,459
North Dakota	182,350	154,298	25,762
South Dakota	161,197	135,958	24,186
Nebraska	–	–	–
Kansas	681,348	599,787	73,250
West North Central	**4,366,586**	**3,821,011**	**502,051**
Delaware	184,611	167,249	16,670
Maryland and D.C.	1,574,864	1,419,005	151,348
Virginia	1,678,468	1,505,087	151,680
West Virginia	782,487	694,116	78,530
North Carolina	1,671,267	1,436,764	217,996
South Carolina	796,379	684,464	105,108
Georgia	1,290,957	1,139,533	137,318
Florida	3,493,830	3,125,088	338,788
South Atlantic	**11,472,863**	**10,171,306**	**1,197,438**
Kentucky	859,297	750,042	93,566
Tennessee	33,660	30,157	3,288
Alabama	981,343	861,400	115,452
Mississippi	463,482	396,155	61,252
East South Central	**2,337,782**	**2,037,754**	**273,558**
Arkansas	623,914	536,492	69,659
Louisiana	1,252,619	1,105,264	126,297
Oklahoma	940,369	826,156	96,351
Texas	4,016,828	3,474,064	478,332
West South Central	**6,833,730**	**5,941,976**	**770,639**
Montana	274,913	231,814	38,106
Idaho	345,577	295,455	47,274
Wyoming	148,345	120,719	25,625
Colorado	834,374	740,873	88,269
New Mexico	356,062	312,391	39,055
Arizona	622,721	544,807	72,717
Utah	395,751	354,235	32,576
Nevada	318,975	286,239	31,816
Mountain	**3,296,718**	**2,886,533**	**375,438**
Washington	794,883	704,716	85,675
Oregon	940,439	799,494	137,468
California	7,398,829	6,486,203	887,853
Pacific	**9,134,151**	**7,990,413**	**1,110,996**
Alaska	13,945	11,739	1,826
Hawaii	295,541	255,141	38,246
Alaska & Hawaii	**309,486**	**266,880**	**40,072**

r Revised.

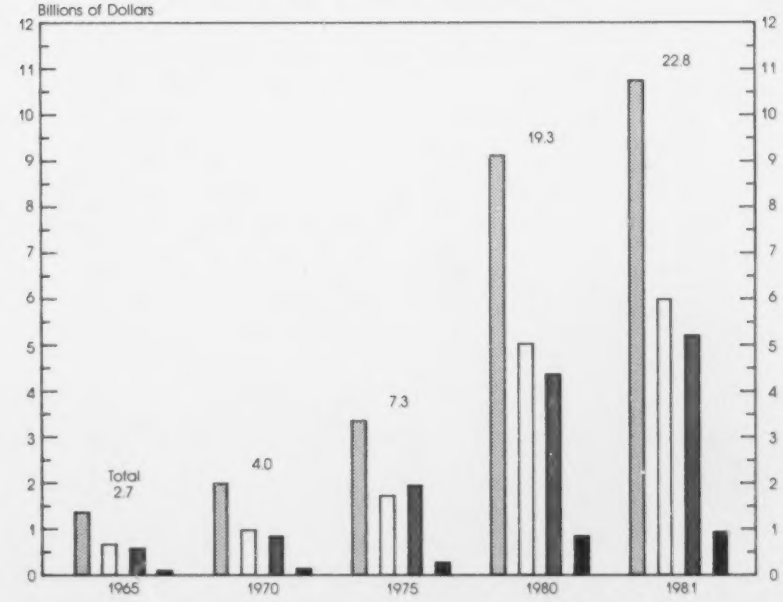
REVENUES
SECTION VIII

Chart VIII-A
REVENUE FROM ULTIMATE CUSTOMERS

INVESTOR-OWNED UTILITIES



NON-INVESTOR-OWNED UTILITIES



Based on Tables 56 and 57, on page 63.

TABLE 56
REVENUES — TOTAL ELECTRIC UTILITY INDUSTRY
BY YEAR AND CLASS OF SERVICE
THOUSANDS OF DOLLARS

Year	Total Revenue from Sales†	Exports to Canada and Mexico	Total from Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1981	**$111,610,897**	**$26,838**	**$111,584,059**	**$43,350,184**	**$32,330,762**	**$32,198,234**	**$1,177,546**	**$2,138,933**	**$212,779**	**$175,621**
1980r	95,505,802	43,421	95,462,381	37,580,892	27,369,963	27,316,770	1,041,008	1,811,065	207,683	135,000
1979r	79,649,846	9,609	79,640,237	30,798,693	22,264,356	23,825,487	918,157	1,517,333	188,628	127,583
1978r	69,865,806	12,862	69,852,944	27,381,419	19,714,364	20,280,391	849,677	1,350,439	170,123	106,531
1977	62,629,713	19,684	62,610,029	24,687,500	18,021,548	17,629,321	776,771	1,245,155	145,680	104,054
1976	53,480,659	17,795	53,462,864	21,149,590	15,236,104	14,999,522	724,436	1,112,247	163,840	77,125
1975	46,864,685	11,229	46,853,456	18,803,156	13,486,624	12,707,490	659,332	975,799	159,160	61,895
1974	39,133,322	6,517	39,126,805	15,702,853	11,196,960	10,673,464	573,164	780,010	146,112	54,242
1973	31,668,281	5,422	31,662,859	13,194,773	9,147,188	8,073,636	491,831	620,991	91,903	42,537
1972	27,927,681	6,611	27,921,070	11,729,833	8,041,052	6,983,891	449,831	593,267	85,300	37,896
1971	24,735,122	9,963	24,725,159	10,483,526	7,071,971	6,133,964	411,534	512,772	77,862	33,530
1970	22,076,885	11,023	22,065,862	9,415,707	6,290,225	5,429,852	377,791	453,104	69,169	30,014
1969	20,144,225	4,876	20,139,349	8,532,729	5,704,764	5,044,857	350,563	417,571	62,981	25,884
1968	18,585,368	5,489	18,579,879	7,802,033	5,315,100	4,672,211	327,196	379,435	61,440	22,464
1967	17,226,235	3,515	17,222,720	7,183,908	4,935,911	4,364,759	307,272	349,323	60,609	20,938
1966	16,199,140	3,004	16,196,136	6,733,714	4,649,084	4,134,538	281,584	321,001	59,132	17,083
1965	15,162,538	4,159	15,158,379	6,328,756	4,312,859	3,884,748	262,569	290,892	60,903	17,652
1964	14,413,138	4,680	14,408,458	6,040,681	4,028,198	3,733,369	248,225	278,319	61,702	17,964
1963	13,708,178	10,972	13,697,206	5,722,544	3,788,316	3,596,121	236,448	275,030	61,749	16,998
1962	13,033,989	9,045	13,024,944	5,457,614	3,420,013	3,591,097	223,445	255,815	63,255	13,705
1961	12,177,388	8,085	12,169,303	5,115,799	3,168,055	3,369,749	205,411	232,319	62,872	15,098

† Excludes other electric revenues.
*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.
r Revised.

TABLE 57
REVENUES — INVESTOR-OWNED ELECTRIC UTILITIES
BY YEAR AND CLASS OF SERVICE
THOUSANDS OF DOLLARS

Year	Total Revenues	Other Revenues†	Total from Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1981	**$94,269,626**	**$5,497,327**	**$88,772,299**	**$32,623,163**	**$26,366,215**	**$26,992,091**	**$934,009**	**$1,642,600**	**$120,146**	**$94,075**
1980r	80,635,823	4,460,469	76,175,354	28,492,402	22,351,012	22,970,668	819,762	1,362,136	111,552	67,822
1979	68,151,992	4,274,055	63,877,937	23,613,621	18,463,690	19,801,718	716,209	1,137,987	80,002	64,710
1978	61,298,846	3,683,472	57,615,374	21,623,578	16,784,764	17,379,313	682,895	1,016,671	74,772	53,381
1977	55,141,656	3,364,784	51,776,872	19,541,802	15,404,917	15,092,313	632,154	964,452	90,263	50,971
1976	47,079,734	2,599,312	44,480,422	16,920,314	13,137,482	12,688,950	612,674	935,116	150,173	35,713
1975	41,855,398	2,285,281	39,570,117	15,434,811	11,766,583	10,785,231	558,554	841,853	157,539	25,546
1974	34,970,201	1,784,436	33,185,765	12,881,369	9,737,585	9,243,172	485,472	670,971	144,837	22,359
1973	27,525,926	1,208,947	26,316,979	10,590,178	7,807,644	6,875,953	412,921	522,826	90,753	16,704
1972	24,132,546	1,011,942	23,120,604	9,359,949	6,832,630	5,950,367	378,413	502,910	84,144	12,191
1971	21,230,373	835,581	20,394,792	8,308,330	6,016,096	5,199,601	347,972	435,949	76,701	10,143
1970	18,830,214	722,994	18,107,220	7,424,224	5,314,447	4,591,093	319,373	381,405	68,030	8,648
1969	17,163,515	647,843	16,515,672	6,722,985	4,804,558	4,274,968	296,028	347,078	61,855	8,200
1968	15,809,534	577,493	15,232,041	6,142,073	4,471,545	3,961,473	276,010	313,231	60,295	7,414
1967	14,568,786	513,147	14,055,639	5,639,111	4,125,734	3,679,635	258,324	286,898	59,358	6,579
1966	13,772,851	488,777	13,284,074	5,308,626	3,906,604	3,497,745	240,978	266,626	58,006	5,489
1965	12,886,621	450,470	12,436,151	4,972,016	3,627,566	3,297,495	226,297	247,918	59,772	5,087
1964	12,211,203	428,384	11,782,819	4,728,561	3,366,885	3,173,671	213,703	234,522	60,554	4,923
1963	11,576,560	403,007	11,173,553	4,483,310	3,156,425	3,037,825	202,198	228,045	60,764	4,986
1962	10,971,556	378,476	10,593,082	4,244,163	2,841,601	3,036,987	191,298	212,161	62,875	3,997
1961	10,301,256	352,177	9,949,079	3,995,657	2,617,599	2,889,704	180,594	198,843	62,421	4,261

† Includes revenue from sales to non-investor-owned electric utilities, from exports and other electric revenues.
*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.
r Revised.

TABLE 58
REVENUES IN PERCENT OF TOTAL — TOTAL ELECTRIC UTILITY INDUSTRY
BY YEAR AND CLASS OF SERVICE

Year	Residential	Commercial	Industrial	Street & Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
1981	**38.8%**	**29.0%**	**28.9%**	**1.0%**	**1.9%**	**0.2%**	**0.2%**
1980r	39.4	28.7	28.6	1.1	1.9	0.2	0.1
1979r	38.7	28.0	29.9	1.1	1.9	0.2	0.2
1978	39.2	28.2	29.0	1.2	1.9	0.3	0.2
1977	39.4	28.8	28.2	1.2	2.0	0.2	0.2
1976	39.6	28.5	2[illegible]0	1.4	2.1	0.3	0.1
1975	40.1	28.8	27.1	1.4	2.1	0.4	0.1
1974	40.1	28.6	27.3	1.5	2.0	0.4	0.1
1973	41.6	28.9	25.5	1.6	2.0	0.3	0.1
1972	42.0	28.8	25.0	1.6	2.1	0.3	0.2
1971	42.4	28.6	24.8	1.7	2.1	0.3	0.1
1970	42.7	28.5	24.6	1.7	2.1	0.3	0.1
1969	42.4	28.3	25.0	1.8	2.1	0.3	0.1
1968	42.0	28.6	25.2	1.8	2.0	0.3	0.1
1967	41.7	28.7	25.3	1.8	2.0	0.4	0.1
1966	41.6	28.7	25.5	1.7	2.0	0.4	0.1
1965	41.8	28.5	25.6	1.7	1.9	0.4	0.1
1964	41.9	28.0	25.9	1.7	1.9	0.4	0.2
1963	41.8	27.7	26.2	1.7	2.0	0.5	0.1
1962	41.9	26.2	27.6	1.7	2.0	0.5	0.1
1961	42.0	26.1	27.7	1.7	1.9	0.5	0.1

Based on revenue data in Table 56. r Revised.

Chart VIII-B
REVENUE
BY YEAR AND CLASS OF SERVICE
TOTAL ELECTRIC UTILITY INDUSTRY
THOUSANDS OF DOLLARS

Based on Table 58, as shown above.

TABLE 59A
REVENUES — TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CLASS OF SERVICE
YEAR 1981 — THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
Total United States	**$111,584,059**	**$43,350,184**	**$32,330,762**	**$32,198,234**	**$1,177,546**	**$2,138,933**	**$212,779**	**$175,621**
Maine	492,364	208,988	111,660	155,564	7,960	8,092	–	100
New Hampshire	496,591	220,299	101,844	163,554	7,287	3,607	–	–
Vermont	221,872	106,395	41,236	60,508	2,196	11,428	–	109
Massachusetts	2,726,141	1,031,335	983,969	618,684	52,168	24,986	5,083	9,916
Rhode Island	413,738	162,495	136,208	101,662	6,141	7,232	–	–
Connecticut	1,636,387	670,000	529,135	406,402	27,812	2,306	32	700
New England	**5,987,093**	**2,399,512**	**1,904,052**	**1,506,374**	**103,564**	**57,651**	**5,115**	**10,825**
New York	8,394,747	2,860,677	3,271,893	1,612,823	117,138	420,575	109,281	2,360
New Jersey	3,900,045	1,441,292	1,360,200	1,039,035	57,390	31	473	1,624
Pennsylvania	5,513,333	1,999,890	1,228,982	2,163,654	64,691	9,972	42,105	4,039
Middle Atlantic	**17,808,125**	**6,301,859**	**5,861,075**	**4,815,512**	**239,219**	**430,578**	**151,859**	**8,023**
Ohio	5,413,471	2,004,426	1,318,971	1,893,471	46,097	144,560	2,664	3,282
Indiana	2,475,402	967,925	484,212	993,668	20,935	6,011	939	1,712
Illinois	5,470,959	1,945,532	1,721,091	1,490,412	34,817	261,809	16,619	679
Michigan	3,770,824	1,324,079	967,494	1,389,398	41,763	43,138	–	4,952
Wisconsin	1,862,434	778,040	536,229	500,330	28,776	16,304	–	2,755
East North Central	**18,993,090**	**7,020,002**	**5,027,997**	**6,267,279**	**172,388**	**471,822**	**20,222**	**13,380**
Minnesota	1,650,502	705,682	318,020	597,909	14,876	13,068	–	948
Iowa	1,281,002	574,583	318,335	356,041	14,124	17,288	–	631
Missouri	1,915,587	876,352	636,185	357,837	18,895	24,629	688	1,001
North Dakota	261,047	132,214	84,305	38,484	2,284	3,586	–	174
South Dakota	247,122	136,774	82,043	23,522	2,342	2,319	–	122
Nebraska	662,446	294,034	246,736	97,056	9,598	12,674	332	2,016
Kansas	1,085,599	427,992	390,909	247,990	10,049	8,490	–	169
West North Central	**7,103,305**	**3,147,631**	**2,076,533**	**1,718,838**	**72,168**	**82,054**	**1,020**	**5,061**
Delaware	379,846	137,013	91,825	125,169	25,285	–	–	554
Maryland and D.C.	2,340,004	842,118	750,792	689,550	38,556	1,034	16,401	1,553
Virginia	2,619,554	1,213,449	733,607	434,819	20,120	214,782	1,255	1,522
West Virginia	810,215	308,234	172,749	323,441	4,290	1,498	–	3
North Carolina	2,869,470	1,350,705	668,844	799,647	16,838	32,057	–	1,379
South Carolina	1,653,153	718,300	365,020	540,295	6,507	22,643	–	388
Georgia	2,509,741	1,068,295	707,567	709,777	15,640	5,787	2,518	157
Florida	6,311,309	3,291,738	1,890,889	940,399	53,533	128,064	–	6,686
South Atlantic	**19,493,292**	**8,929,852**	**5,381,293**	**4,563,097**	**180,769**	**405,865**	**20,174**	**12,242**
Kentucky	2,036,840	685,321	531,023	699,349	11,608	108,727	–	812
Tennessee	2,855,707	1,057,981	233,101	1,516,677	40,210	1,098	–	6,640
Alabama	2,368,943	912,292	419,776	1,015,170	16,400	1,469	–	3,836
Mississippi	1,275,098	557,962	321,576	361,317	12,431	20,668	–	1,144
East South Central	**8,536,588**	**3,213,556**	**1,505,476**	**3,592,513**	**80,649**	**131,962**	**–**	**12,432**
Arkansas	1,156,881	539,716	298,156	297,285	5,503	15,651	467	103
Louisiana	2,782,709	1,044,400	585,798	989,582	22,200	80,759	–	59,970
Oklahoma	1,449,081	650,282	428,424	304,677	6,115	59,531	–	52
Texas	9,395,349	3,508,930	2,557,127	3,114,103	59,718	146,699	–	8,772
West South Central	**14,784,020**	**5,743,328**	**3,869,505**	**4,705,647**	**93,536**	**302,640**	**467**	**68,897**
Montana	250,538	102,515	71,692	72,035	2,738	1,181	–	377
Idaho	412,970	154,336	126,022	129,067	2,690	803	–	52
Wyoming	281,350	76,424	134,493	68,040	1,157	988	–	248
Colorado	1,105,553	414,308	468,031	191,096	18,137	12,652	–	1,329
New Mexico	599,392	184,162	243,376	138,117	4,586	25,909	–	3,242
Arizona	1,596,135	648,259	574,210	322,444	13,036	30,039	–	8,147
Utah	554,488	206,865	182,695	144,093	6,132	14,597	–	106
Nevada	462,626	176,216	103,332	168,902	4,316	9,635	–	225
Mountain	**5,263,052**	**1,963,085**	**1,903,851**	**1,233,794**	**52,792**	**95,804**	**–**	**13,726**
Washington	1,252,090	579,049	321,449	325,801	11,378	13,503	302	608
Oregon	1,095,346	481,330	328,681	273,156	10,611	1,131	–	437
California	10,381,860	3,272,836	3,878,804	2,893,553	151,536	141,942	13,547	29,642
Pacific	**12,729,296**	**4,333,215**	**4,528,934**	**3,492,510**	**173,525**	**156,576**	**13,849**	**30,687**
Alaska	188,012	82,876	97,678	1,408	1,648	3,981	73	348
Hawaii	698,186	215,268	174,368	301,262	7,288	–	–	–
Alaska & Hawaii	**886,198**	**298,144**	**272,046**	**302,670**	**8,936**	**3,981**	**73**	**348**

TABLE 59B
REVENUES — TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CLASS OF SERVICE
YEAR 1980r — THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**$95,462,381**	**$37,580,892**	**$27,369,963**	**$27,316,770**	**$1,041,008**	**$1,811,065**	**$207,683**	**$135,000**
Maine	424,653	182,422	96,422	132,043	7,350	6,331	–	85
New Hampshire	386,772	173,163	85,302	119,361	5,945	3,000	–	1
Vermont	173,292	86,579	33,725	44,833	1,803	6,253	–	99
Massachusetts	2,259,435	864,631	804,313	510,371	45,240	21,939	4,079	8,862
Rhode Island	340,328	135,991	111,298	82,604	4,821	5,612	–	2
Connecticut	1,321,722	547,221	424,624	324,373	22,998	1,910	13	583
New England	**4,906,202**	**1,990,007**	**1,555,684**	**1,213,585**	**88,157**	**45,045**	**4,092**	**9,632**
New York	6,742,084	2,329,086	2,565,245	1,259,460	103,264	372,308	111,040	1,681
New Jersey	3,410,385	1,299,017	1,169,777	885,962	53,528	25	356	1,720
Pennsylvania	4,882,078	1,808,658	1,059,900	1,896,162	57,767	13,650	42,763	3,178
Middle Atlantic	**15,034,547**	**5,436,761**	**4,794,922**	**4,041,584**	**214,559**	**385,983**	**154,159**	**6,579**
Ohio	4,832,225	1,812,071	1,153,481	1,683,842	44,303	133,392	2,212	2,924
Indiana	2,263,087	897,242	448,636	890,246	19,752	5,223	882	1,106
Illinois	4,833,036	1,741,370	1,498,948	1,315,977	32,049	229,377	14,716	599
Michigan	3,389,275	1,218,483	864,765	1,227,223	58,485	35,497	–	4,822
Wisconsin	1,621,666	682,563	467,278	428,867	25,631	14,939	–	2,388
East North Central	**16,939,289**	**6,351,729**	**4,433,108**	**5,546,155**	**160,220**	**418,428**	**17,810**	**11,839**
Minnesota	1,475,087	633,102	284,290	532,422	13,762	10,586	–	925
Iowa	1,150,658	525,054	284,302	313,170	12,564	15,029	–	539
Missouri	1,850,889	880,579	600,537	327,253	17,464	23,416	616	1,024
North Dakota	214,756	109,443	69,756	29,974	2,311	3,098	–	174
South Dakota	213,895	118,071	71,317	20,217	2,025	2,154	–	111
Nebraska	597,850	271,225	220,327	84,873	8,225	10,980	313	1,907
Kansas	1,012,066	423,291	352,914	218,627	9,341	7,736	–	157
West North Central	**6,515,201**	**2,960,765**	**1,883,443**	**1,526,536**	**65,692**	**72,999**	**929**	**4,837**
Delaware	373,396	126,675	88,526	132,540	25,031	207	–	417
Maryland and D.C.	2,068,829	750,455	659,766	606,974	34,134	875	15,589	1,036
Virginia	2,506,338	1,156,294	701,665	427,026	18,760	200,111	1,100	1,382
West Virginia	711,107	267,453	147,907	290,589	3,905	1,252	–	1
North Carolina	2,423,854	1,152,847	560,890	666,759	14,393	27,826	–	1,139
South Carolina	1,400,764	617,495	306,959	451,489	5,383	19,106	–	332
Georgia	2,259,308	972,753	632,291	632,714	14,192	5,291	1,923	144
Florida	4,900,022	2,518,677	1,492,605	739,862	43,607	98,991	–	6,280
South Atlantic	**16,643,618**	**7,562,649**	**4,590,609**	**3,947,953**	**159,405**	**353,659**	**18,612**	**10,731**
Kentucky	1,766,179	601,494	419,023	679,984	10,118	54,721	–	839
Tennessee	2,379,034	872,195	194,257	1,268,722	34,914	764	–	8,182
Alabama	2,102,429	814,390	374,962	895,049	14,157	1,210	–	2,661
Mississippi	1,043,078	461,413	261,595	292,616	10,137	16,496	–	821
East South Central	**7,290,720**	**2,749,492**	**1,249,837**	**3,136,371**	**69,326**	**73,191**	**–**	**12,503**
Arkansas	1,038,802	479,268	275,855	263,646	4,820	14,650	466	97
Louisiana	2,192,332	825,108	469,774	779,036	18,073	61,577	–	38,764
Oklahoma	1,243,567	575,324	357,655	254,660	4,713	51,169	–	46
Texas	7,484,312	2,891,230	2,013,676	2,402,161	48,867	122,628	–	5,750
West South Central	**11,959,013**	**4,770,930**	**3,116,960**	**3,699,503**	**76,473**	**250,024**	**466**	**44,657**
Montana	203,330	85,410	59,000	55,216	2,438	941	–	325
Idaho	367,075	144,118	114,770	104,796	2,454	887	–	50
Wyoming	204,440	57,205	97,984	47,198	1,036	843	–	174
Colorado	954,780	357,836	392,571	174,948	15,611	12,527	–	1,287
New Mexico	502,095	161,399	206,943	106,304	4,034	21,239	–	2,176
Arizona	1,352,329	560,691	489,525	264,625	11,166	23,494	–	2,828
Utah	483,469	182,037	158,328	124,132	5,749	13,127	–	96
Nevada	408,314	161,292	89,276	148,832	4,171	4,446	–	297
Mountain	**4,475,832**	**1,709,988**	**1,608,397**	**1,026,051**	**46,659**	**77,504**	**–**	**7,233**
Washington	999,419	480,371	261,891	235,816	9,790	10,574	160	817
Oregon	922,416	425,558	271,994	214,302	9,205	982	–	375
California	9,165,791	2,926,894	3,400,875	2,547,852	134,347	118,946	11,383	25,494
Pacific	**11,087,626**	**3,832,823**	**3,934,760**	**2,997,970**	**153,342**	**130,502**	**11,543**	**26,686**
Alaska	164,121	73,355	83,759	1,451	1,451	3,730	72	303
Hawaii	446,212	142,393	118,484	179,611	5,724	–	–	–
Alaska & Hawaii	**610,333**	**215,748**	**202,243**	**181,062**	**7,175**	**3,730**	**72**	**303**

r Revised.

TABLE 60A
REVENUES – INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CLASS OF SERVICE
YEAR 1981 – THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
Total United States	**$88,772,299**	**$32,623,163**	**$26,366,215**	**$26,992,091**	**$934,009**	**$1,642,600**	**$120,146**	**$94,075**
Maine	474,218	198,784	107,119	152,769	7,736	7,810	–	–
New Hampshire	451,888	191,557	87,798	161,943	7,087	3,503	–	–
Vermont	172,842	79,909	32,095	49,359	1,750	9,729	–	–
Massachusetts	2,394,133	891,183	915,971	514,247	47,212	20,437	5,083	–
Rhode Island	411,639	161,145	135,937	101,282	6,067	7,208	–	–
Connecticut	1,553,267	646,470	511,287	368,702	26,776	–	32	–
New England	**5,457,987**	**2,169,048**	**1,790,207**	**1,348,302**	**96,628**	**48,687**	**5,115**	**–**
New York	7,883,404	2,830,071	3,252,076	1,539,031	71,962	168,461	19,787	2,016
New Jersey	3,855,027	1,419,575	1,350,296	1,025,998	57,072	–	473	1,613
Pennsylvania	5,360,287	1,895,203	1,202,931	2,142,029	64,398	9,660	42,105	3,961
Middle Atlantic	**17,098,718**	**6,144,849**	**5,805,303**	**4,707,058**	**193,432**	**178,121**	**62,365**	**7,590**
Ohio	4,980,937	1,729,007	1,222,300	1,851,692	42,133	132,226	2,664	915
Indiana	2,072,008	704,333	399,427	940,789	19,892	5,004	939	1,624
Illinois	5,097,531	1,726,387	1,592,677	1,467,701	33,467	260,602	16,619	78
Michigan	3,411,699	1,174,694	846,007	1,315,714	37,689	34,195	–	3,400
Wisconsin	1,571,553	606,125	467,144	457,901	25,227	14,223	–	933
East North Central	**17,133,728**	**5,940,546**	**4,527,555**	**6,033,797**	**158,408**	**446,250**	**20,222**	**6,950**
Minnesota	1,087,543	325,035	174,027	562,225	13,921	12,066	–	269
Iowa	970,761	375,337	262,258	305,895	13,496	13,741	–	34
Missouri	1,442,952	575,757	514,555	318,878	17,059	16,582	–	121
North Dakota	149,123	66,355	39,440	38,093	2,124	3,025	–	86
South Dakota	132,963	60,456	48,511	20,515	2,144	1,337	–	–
Nebraska	–	–	–	–	–	–	–	–
Kansas	740,459	282,482	246,090	195,146	9,783	6,823	–	135
West North Central	**4,523,801**	**1,685,422**	**1,284,881**	**1,440,752**	**58,527**	**53,574**	**–**	**645**
Delaware	293,159	102,065	77,870	110,413	2,257	–	–	554
Maryland and D.C.	2,209,400	761,768	705,667	685,014	38,201	881	16,401	1,468
Virginia	2,254,054	987,754	624,731	409,395	19,061	211,858	1,255	–
West Virginia	805,656	305,178	171,612	323,150	4,288	1,424	–	4
North Carolina	2,141,678	871,986	526,251	699,527	14,484	29,137	–	293
South Carolina	1,252,416	452,299	281,635	496,809	6,036	15,364	–	273
Georgia	1,825,803	608,657	545,591	651,370	14,154	3,513	2,518	–
Florida	4,893,162	2,510,051	1,457,985	749,973	44,054	126,173	–	4,926
South Atlantic	**15,675,328**	**6,599,758**	**4,391,342**	**4,125,651**	**142,535**	**388,350**	**20,174**	**7,518**
Kentucky	950,335	345,484	222,937	265,907	7,726	107,946	–	335
Tennessee	46,627	21,121	10,342	13,812	254	1,098	–	–
Alabama	1,452,907	533,268	328,094	583,932	7,532	–	–	81
Mississippi	720,273	263,879	202,331	227,760	7,066	19,237	–	–
East South Central	**3,170,142**	**1,163,752**	**763,704**	**1,091,411**	**22,578**	**128,281**	**–**	**416**
Arkansas	766,481	297,047	176,833	273,126	5,041	14,434	–	–
Louisiana	2,343,641	758,829	454,136	987,400	15,138	71,702	–	56,436
Oklahoma	1,043,388	420,858	290,330	267,654	5,987	58,559	–	–
Texas	7,551,794	2,613,986	1,921,882	2,824,969	50,200	140,062	–	695
West South Central	**11,705,304**	**4,090,720**	**2,843,181**	**4,353,149**	**76,366**	**284,757**	**–**	**57,131**
Montana	167,476	64,824	51,807	46,691	2,711	1,085	–	358
Idaho	368,040	129,252	108,298	127,867	2,514	109	–	–
Wyoming	129,070	31,940	28,126	67,426	1,080	304	–	194
Colorado	731,627	253,092	298,683	151,309	16,183	12,292	–	68
New Mexico	426,678	133,179	143,163	118,975	4,263	24,639	–	2,459
Arizona	953,747	360,265	331,215	237,715	8,699	15,853	–	–
Utah	465,853	174,914	128,188	143,041	5,691	13,994	–	25
Nevada	414,601	163,357	91,550	147,104	3,979	8,611	–	–
Mountain	**3,657,092**	**1,310,823**	**1,181,030**	**1,040,128**	**45,120**	**76,887**	**–**	**3,104**
Washington	539,733	287,454	175,838	70,627	5,814	–	–	–
Oregon	860,306	377,426	261,300	211,325	9,890	131	–	234
California	8,242,678	2,634,091	3,164,893	2,268,178	117,359	35,485	12,197	10,475
Pacific	**9,642,717**	**3,298,971**	**3,602,031**	**2,550,130**	**133,063**	**35,616**	**12,197**	**10,709**
Alaska	9,296	4,006	2,613	451	64	2,077	73	12
Hawaii	698,186	215,268	174,368	301,262	7,288	–	–	–
Alaska & Hawaii	**707,482**	**219,274**	**176,981**	**301,713**	**7,352**	**2,077**	**73**	**12**

TABLE 60B
REVENUES — INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CLASS OF SERVICE
YEAR 1980r — THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**$76,175,354**	**$28,492,402**	**$22,351,012**	**$22,970,668**	**$819,762**	**$1,362,136**	**$111,552**	**$67,822**
Maine	409,340	173,814	92,604	129,674	7,156	6,092	–	–
New Hampshire	347,756	151,738	69,178	118,138	5,792	2,910	–	–
Vermont	135,380	66,153	26,654	36,202	1,453	4,918	–	–
Massachusetts	1,982,050	747,835	748,781	421,899	40,949	18,507	4,079	–
Rhode Island	338,556	134,863	111,060	82,294	4,754	5,585	–	–
Connecticut	1,252,682	527,194	409,497	293,872	22,106	–	13	–
New England	**4,465,764**	**1,801,597**	**1,457,774**	**1,082,079**	**82,210**	**38,012**	**4,092**	**–**
New York	6,258,570	2,303,172	2,549,305	1,190,407	60,320	136,320	17,640	1,406
New Jersey	3,372,463	1,280,220	1,161,149	875,770	53,248	–	356	1,720
Pennsylvania	4,748,845	1,716,850	1,038,035	1,877,210	57,507	13,377	42,763	3,103
Middle Atlantic	**14,379,878**	**5,300,242**	**4,748,489**	**3,943,387**	**171,075**	**149,697**	**60,759**	**6,229**
Ohio	4,447,857	1,567,899	1,067,793	1,646,441	40,502	122,203	2,212	807
Indiana	1,900,532	660,708	372,361	842,430	18,858	4,271	882	1,022
Illinois	4,505,321	1,550,747	1,384,770	1,295,871	30,836	228,307	14,716	74
Michigan	3,073,374	1,086,758	755,077	1,165,771	34,677	27,562	–	3,529
Wisconsin	1,372,072	535,905	407,770	392,105	22,485	12,949	–	858
East North Central	**15,299,156**	**5,402,017**	**3,987,771**	**5,342,618**	**147,358**	**395,292**	**17,810**	**6,290**
Minnesota	983,410	301,733	158,173	500,609	12,895	9,683	–	317
Iowa	875,813	349,126	234,565	268,310	11,990	11,822	–	–
Missouri	1,400,253	592,655	485,274	290,531	15,724	15,898	–	171
North Dakota	124,616	56,197	33,894	29,653	2,178	2,596	–	98
South Dakota	116,837	53,246	42,952	17,611	1,857	1,171	–	–
Nebraska	–	–	–	–	–	–	–	–
Kansas	696,534	287,867	221,773	171,200	8,861	6,709	–	124
West North Central	**4,197,463**	**1,640,824**	**1,176,631**	**1,277,914**	**53,505**	**47,879**	**–**	**710**
Delaware	289,637	93,364	75,101	118,268	2,281	206	–	417
Maryland and D.C.	1,957,598	682,144	621,333	603,004	33,820	743	15,589	965
Virginia	2,175,808	951,749	603,230	404,476	17,706	197,547	1,100	–
West Virginia	707,179	264,826	146,926	290,334	3,903	1,190	–	–
North Carolina	1,819,087	755,389	441,866	583,685	12,668	25,259	–	220
South Carolina	1,064,259	396,805	236,575	413,167	4,972	12,506	–	234
Georgia	1,652,842	563,329	488,889	582,424	13,046	3,231	1,923	–
Florida	3,821,493	1,926,692	1,157,805	600,610	35,621	95,813	–	4,952
South Atlantic	**13,487,903**	**5,634,298**	**3,771,725**	**3,595,968**	**124,017**	**336,495**	**18,612**	**6,788**
Kentucky	852,403	309,297	155,194	326,861	6,712	54,024	–	315
Tennessee	40,090	17,967	8,746	12,370	243	764	–	–
Alabama	1,309,076	493,251	296,455	512,613	6,686	–	–	71
Mississippi	592,446	222,530	164,542	184,511	5,543	15,320	–	–
East South Central	**2,794,015**	**1,043,045**	**624,937**	**1,036,355**	**19,184**	**70,108**	**–**	**386**
Arkansas	696,505	267,061	170,001	241,524	4,388	13,531	–	–
Louisiana	1,860,176	609,822	370,219	777,294	12,473	54,411	–	35,957
Oklahoma	902,931	383,119	242,090	222,794	4,601	50,327	–	–
Texas	5,998,440	2,161,751	1,519,169	2,159,173	40,515	117,328	–	504
West South Central	**9,458,052**	**3,421,753**	**2,301,479**	**3,400,785**	**61,977**	**235,597**	**–**	**36,461**
Montana	138,497	55,181	43,049	36,704	2,415	845	–	303
Idaho	327,718	122,282	99,348	103,734	2,294	60	–	–
Wyoming	96,268	25,422	22,701	46,749	971	293	–	132
Colorado	635,944	221,473	248,837	139,581	13,860	12,116	–	77
New Mexico	372,197	118,668	123,572	104,552	3,761	20,126	–	1,518
Arizona	832,218	320,310	292,074	199,854	7,474	12,506	–	–
Utah	408,094	154,622	112,295	123,216	5,363	12,574	–	24
Nevada	379,945	155,060	79,086	137,327	4,047	4,425	–	–
Mountain	**3,190,881**	**1,173,018**	**1,020,962**	**891,717**	**40,185**	**62,945**	**–**	**2,054**
Washington	453,939	244,626	142,703	61,558	5,052	–	–	–
Oregon	739,869	339,201	216,727	175,022	8,659	121	–	139
California	7,253,473	2,345,535	2,780,916	1,983,331	100,757	23,962	10,207	8,765
Pacific	**8,447,281**	**2,929,362**	**3,140,346**	**2,219,911**	**114,468**	**24,083**	**10,207**	**8,904**
Alaska	8,749	3,853	2,414	323	59	2,028	72	–
Hawaii	446,212	142,393	118,484	179,611	5,724	–	–	–
Alaska & Hawaii	**454,961**	**146,246**	**120,898**	**179,934**	**5,783**	**2,028**	**72**	**–**

r Revised.

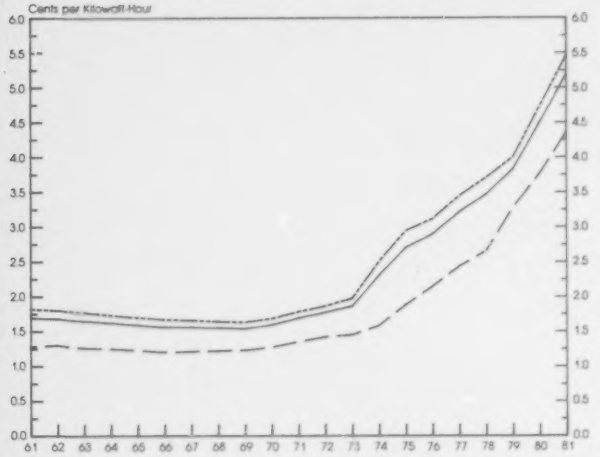
TABLE 61
REVENUES – TOTAL ELECTRIC UTILITY INDUSTRY
BY QUARTER AND CLASS OF SERVICE
1976 – 1981 – THOUSANDS OF DOLLARS

Year – Quarter	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
YEAR – 1981								
First Quarter	$ 26,292,697	$10,645,558	$ 7,357,029	$ 7,380,005	$ 298,406	$ 518,489	$ 54,523	$ 38,687
Second Quarter	26,151,347	9,619,553	7,683,214	7,945,082	292,047	518,296	52,372	40,783
Third Quarter	31,329,909	12,463,524	9,211,768	8,691,070	292,882	571,018	52,745	46,902
Fourth Quarter	27,810,106	10,621,549	8,078,751	8,182,077	294,211	531,130	53,139	49,249
Total	**$111,584,059**	**$43,350,184**	**$32,330,762**	**$32,198,234**	**$1,177,546**	**$2,138,933**	**$212,779**	**$175,621**
YEAR – 1980r								
First Quarter	$ 22,255,055	$ 9,012,476	$ 6,139,359	$ 6,343,392	$ 248,705	$ 423,601	$ 52,174	$ 35,348
Second Quarter	21,956,565	8,176,526	6,380,759	6,636,811	255,417	430,125	49,864	27,063
Third Quarter	27,130,771	11,255,679	7,907,105	7,130,519	263,211	486,375	52,362	35,520
Fourth Quarter	24,119,990	9,136,211	6,942,740	7,206,048	273,675	470,964	53,283	37,069
Total	**$ 95,462,381**	**$37,580,892**	**$27,369,963**	**$27,316,770**	**$1,041,008**	**$1,811,065**	**$207,683**	**$135,000**
YEAR – 1979r								
First Quarter	$ 19,328,205	$ 7,927,947	$ 5,199,593	$ 5,540,983	$ 222,305	$ 357,596	$ 48,594	$ 31,187
Second Quarter	18,613,859	6,798,472	5,260,442	5,894,246	224,518	354,080	48,527	33,574
Third Quarter	21,702,136	8,592,823	6,189,947	6,217,460	229,159	398,763	43,570	30,414
Fourth Quarter	19,996,037	7,479,451	5,614,374	6,172,798	242,175	406,894	47,937	32,408
Total	**$ 79,640,237**	**$30,798,693**	**$22,264,356**	**$23,825,487**	**$ 918,157**	**$1,517,333**	**$188,628**	**$127,583**
YEAR – 1978								
First Quarter	$ 16,947,807	$ 7,040,372	$ 4,660,507	$ 4,621,431	$ 208,507	$ 338,151	$ 48,769	$ 30,070
Second Quarter	16,356,651	6,072,539	4,662,337	5,026,512	204,415	323,760	37,984	29,104
Third Quarter	19,249,686	7,722,661	5,528,365	5,372,449	214,027	350,584	41,464	20,136
Fourth Quarter	17,298,800	6,545,847	4,863,155	5,259,999	222,728	337,944	41,906	27,221
Total	**$ 69,852,944**	**$27,381,419**	**$19,714,364**	**$20,280,391**	**$ 849,677**	**$1,350,439**	**$170,123**	**$106,531**
YEAR – 1977								
First Quarter	$ 14,960,018	$ 6,224,101	$ 4,130,828	$ 4,043,509	$ 191,426	$ 305,239	$ 41,516	$ 23,399
Second Quarter	14,464,150	5,348,035	4,244,218	4,327,893	187,128	294,381	37,554	24,941
Third Quarter	17,563,408	7,150,893	5,135,241	4,692,794	193,518	333,935	31,976	25,051
Fourth Quarter	15,622,453	5,964,471	4,511,261	4,565,125	204,699	311,600	34,634	30,663
Total	**$ 62,610,029**	**$24,687,500**	**$18,021,548**	**$17,629,321**	**$ 776,771**	**$1,245,155**	**$145,680**	**$104,054**
YEAR – 1976								
First Quarter	$ 12,738,172	$ 5,240,874	$ 3,521,293	$ 3,467,777	$ 176,763	$ 270,745	$ 42,604	$ 18,116
Second Quarter	12,394,715	4,631,321	3,592,313	3,670,647	173,541	268,181	39,670	19,042
Third Quarter	14,608,458	5,891,127	4,242,827	3,941,887	183,981	288,536	40,193	19,907
Fourth Quarter	13,721,519	5,386,268	3,879,671	3,919,211	190,151	284,785	41,373	20,060
Total	**$ 53,462,864**	**$21,149,590**	**$15,236,104**	**$14,999,522**	**$ 724,436**	**$1,112,247**	**$163,840**	**$ 77,125**

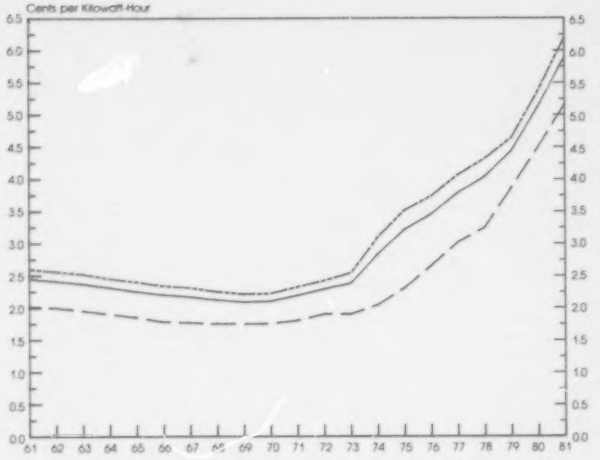
r Revised.

Chart VIII-C
AVERAGE REVENUES PER KWHR SOLD

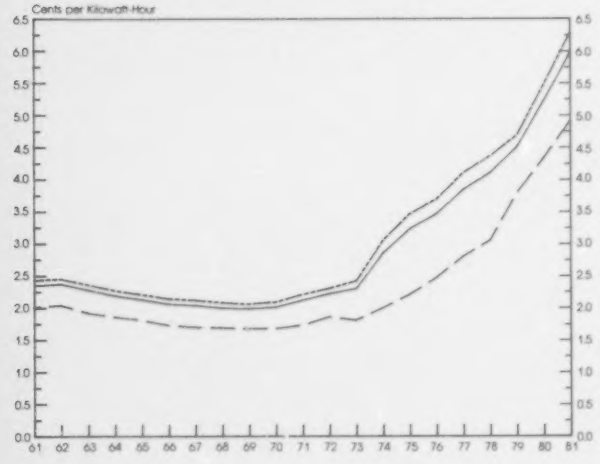
TOTAL ULTIMATE CUSTOMERS



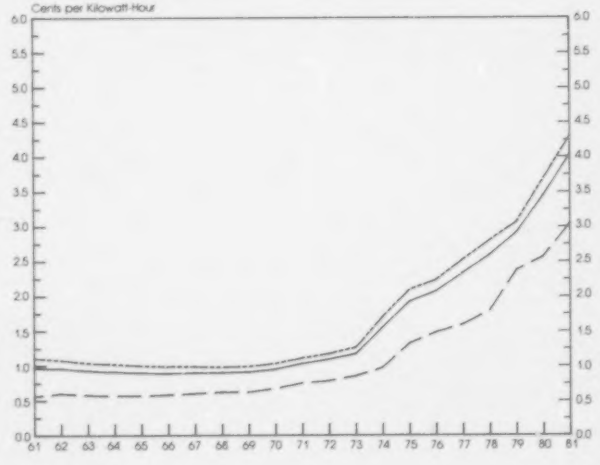
RESIDENTIAL CUSTOMERS

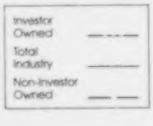


COMMERCIAL CUSTOMERS



INDUSTRIAL CUSTOMERS





Based on sales data in Tables 38 and 39, page 43, and revenue data in Tables 56 and 57, page 63.

TABLE 62
AVERAGE REVENUES PER KILOWATT-HOUR SOLD
TOTAL ELECTRIC UTILITY INDUSTRY
CENTS PER KILOWATT-HOUR

Year	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Total Ultimate Customers
1981	**5.89¢**	**5.97¢**	**4.03¢**	**7.86¢**	**4.19¢**	**5.20¢**	**5.18¢**
1980r	5.12	5.22	3.44	7.02	3.75	4.86	4.49
1979r	4.43	4.50	2.91	6.21	3.06	4.43	3.82
1978	4.03	4.10	2.59	5.74	2.73	3.92	3.46
1977	3.78	3.84	2.33	5.39	2.69	3.46	3.21
1976	3.45	3.46	2.07	5.03	2.44	3.78	2.89
1975	3.21	3.23	1.92	4.74	2.24	3.72	2.70
1974	2.83	2.85	1.55	4.31	1.92	3.43	2.30
1973	2.38	2.30	1.17	3.83	1.47	2.20	1.86
1972	2.29	2.22	1.09	3.69	1.37	1.92	1.77
1971	2.19	2.12	1.03	3.53	1.29	1.72	1.69
1970	2.10	2.01	0.95	3.38	1.20	1.49	1.59
1969	2.09	1.99	0.91	3.25	1.16	1.39	1.54
1968	2.12	2.00	0.90	3.18	1.18	1.35	1.55
1967	2.17	2.04	0.90	3.12	1.19	1.33	1.56
1966	2.20	2.06	0.89	3.05	1.24	1.31	1.56
1965	2.25	2.13	0.90	2.99	1.34	1.31	1.59
1964	2.31	2.19	0.91	2.99	1.35	1.31	1.62
1963	2.37	2.28	0.93	3.05	1.36	1.32	1.65
1962	2.41	2.37	0.96	3.04	1.39	1.34	1.68
1961	2.45	2.35	0.97	3.04	1.41	1.34	1.69

Based on sales data in Table 38 and revenue data in Table 56. r Revised.

TABLE 63
AVERAGE REVENUES PER KILOWATT-HOUR SOLD
INVESTOR-OWNED ELECTRIC UTILITIES
CENTS PER KILOWATT-HOUR

Year	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Total Ultimate Customers
1981	**6.19¢**	**6.28¢**	**4.29¢**	**8.55¢**	**4.36¢**	**6.19¢**	**5.45¢**
1980r	5.36	5.47	3.68	7.58	3.95	5.17	4.72
1979	4.63	4.68	3.06	6.60	3.33	3.80	3.99
1978	4.31	4.36	2.80	6.18	2.96	3.59	3.70
1977	4.06	4.10	2.52	5.79	2.90	3.68	3.44
1976	3.73	3.69	2.23	5.43	2.69	3.82	3.11
1975	3.51	3.46	2.09	5.14	2.51	3.79	2.94
1974	3.09	3.05	1.70	4.66	2.17	3.48	2.50
1973	2.54	2.42	1.26	4.12	1.61	2.22	1.97
1972	2.42	2.30	1.17	3.95	1.50	1.94	1.86
1971	2.32	2.21	1.11	3.78	1.42	1.73	1.78
1970	2.22	2.09	1.03	3.62	1.33	1.51	1.68
1969	2.21	2.06	0.99	3.51	1.29	1.40	1.63
1968	2.25	2.08	0.98	3.41	1.31	1.36	1.64
1967	2.31	2.12	0.99	3.36	1.32	1.34	1.66
1966	2.34	2.14	0.99	3.30	1.37	1.32	1.67
1965	2.40	2.21	1.00	3.26	1.40	1.32	1.70
1964	2.45	2.27	1.02	3.24	1.41	1.31	1.73
1963	2.52	2.36	1.04	3.23	1.44	1.33	1.77
1962	2.56	2.45	1.08	3.22	1.47	1.35	1.80
1961	2.60	2.43	1.11	3.23	1.47	1.35	1.82

Based on sales data in Table 39 and revenue data in Table 57. r Revised.

TABLE 64
AVERAGE ANNUAL REVENUE PER CUSTOMER

TOTAL ELECTRIC UTILITY INDUSTRY

Year	Total Ultimate Customers	Residential	Commercial
1981	**$1,191.51**	**$522.24**	**$3,285.34**
1980r	1,040.22	461.81	2,848.00
1979r	897.17	391.30	2,394.04
1978	807.12	356.74	2,176.91
1977	739.80	328.99	2,031.41
1976	646.33	288.39	1,754.26
1975	579.03	262.26	1,579.55
1974	493.43	223.73	1,327.40
1973	408.14	192.35	1,096.55
1972	371.01	176.39	988.78
1971	336.46	161.49	888.75
1970	307.36	148.58	803.54
1969	285.99	137.45	735.27
1968	269.59	128.53	694.31
1967	254.90	120.85	652.20
1966	244.39	115.65	620.21
1965	233.62	111.11	584.66
1964	226.80	108.44	553.36
1963	220.38	105.17	528.38
1962	214.19	102.66	492.08
1961	204.30	98.35	462.99

INVESTOR-OWNED ELECTRIC UTILITIES

Year	Total Ultimate Customers	Residential	Commercial
1981	**$1,239.67**	**$514.25**	**$3,497.21**
1980r	1,083.26	457.29	3,022.55
1979	928.41	387.34	2,555.09
1978	858.50	363.56	2,384.37
1977	789.43	336.28	2,234.30
1976	692.11	297.14	1,942.05
1975	626.39	275.86	1,763.39
1974	534.25	234.33	1,474.97
1973	433.66	197.38	1,197.68
1972	391.66	179.49	1,071.15
1971	354.57	163.64	961.77
1970	321.42	149.42	861.21
1969	298.71	138.06	784.21
1968	281.36	128.95	739.04
1967	264.84	120.93	688.26
1966	255.02	116.19	655.03
1965	243.97	111.32	617.08
1964	236.15	108.28	580.31
1963	228.80	105.03	553.59
1962	221.23	101.50	512.94
1961	211.83	97.50	483.21

Based on revenue data in Tables 56 and 57, and average number of customers per period. r Revised.

TABLE 65A
AVERAGE ANNUAL REVENUE PER CUSTOMER
TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CERTAIN CLASS OF SERVICE – 1981

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**$1,191.51**	**$522.24**	**$3,285.34**
Maine	938.41	448.88	1,956.48
New Hampshire	1,186.46	600.22	2,113.87
Vermont	868.21	469.86	1,612.73
Massachusetts	1,216.58	513.03	4,650.77
Rhode Island	1,104.12	481.31	4,024.46
Connecticut	1,314.60	592.36	5,004.21
New England	**1,183.43**	**528.76**	**3,950.53**
New York	1,302.41	500.04	5,012.53
New Jersey	1,358.19	568.75	4,272.94
Pennsylvania	1,171.15	474.28	2,708.52
Middle Atlantic	**1,269.77**	**505.29**	**4,113.56**
Ohio	1,241.62	509.86	3,399.93
Indiana	1,116.86	486.57	2,359.28
Illinois	1,200.76	470.15	4,308.94
Michigan	1,007.29	390.98	2,876.66
Wisconsin	925.20	429.79	2,758.62
East North Central	**1,124.57**	**460.16**	**3,300.71**
Minnesota	963.93	458.74	1,978.33
Iowa	1,015.15	520.10	2,170.03
Missouri	897.07	461.05	2,909.63
North Dakota	903.94	533.10	2,200.14
South Dakota	811.69	519.69	2,080.62
Nebraska	814.74	433.11	1,969.41
Kansas	1,031.02	471.29	2,935.57
West North Central	**938.50**	**473.89**	**2,408.15**
Delaware	1,566.95	618.31	4,578.43
Maryland and D.C.	1,352.84	539.88	4,554.04
Virginia	1,264.47	650.88	4,007.07
West Virginia	1,013.19	435.00	2,135.21
North Carolina	1,142.53	613.69	2,313.51
South Carolina	1,277.41	631.76	2,480.36
Georgia	1,122.33	530.73	3,414.92
Florida	1,312.04	766.10	3,944.13
South Atlantic	**1,241.96**	**637.76**	**3,423.68**
Kentucky	1,363.41	514.64	3,675.43
Tennessee	1,495.41	619.88	1,270.95
Alabama	1,448.89	630.13	2,364.63
Mississippi	1,288.36	643.77	2,818.20
East South Central	**1,416.09**	**600.34**	**2,430.08**
Arkansas	1,094.68	581.61	2,739.52
Louisiana	1,641.81	694.94	3,515.46
Oklahoma	1,021.23	524.82	2,687.56
Texas	1,590.38	687.11	3,532.17
West South Central	**1,466.92**	**654.38**	**3,339.14**
Montana	662.91	320.55	1,358.39
Idaho	957.38	419.90	2,109.08
Wyoming	1,170.25	390.15	3,257.67
Colorado	821.08	354.27	2,766.63
New Mexico	1,117.06	400.93	3,383.65
Arizona	1,419.37	652.55	4,668.30
Utah	1,061.12	444.20	3,816.08
Nevada	1,284.75	549.43	2,658.67
Mountain	**1,065.41**	**457.39**	**3,148.66**
Washington	689.73	359.15	1,710.83
Oregon	902.84	459.80	2,029.95
California	1,051.40	379.73	3,276.58
Pacific	**986.55**	**384.22**	**2,953.13**
Alaska	1,199.69	616.49	4,675.83
Hawaii	2,281.62	813.59	4,444.65
Alaska & Hawaii	**1,915.18**	**747.19**	**4,524.97**

Based on revenue data in Table 59 and average number of customers data in Table 52.

TABLE 65B
AVERAGE ANNUAL REVENUE PER CUSTOMER
TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CERTAIN CLASS OF SERVICE – 1980r

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**$1,040.22**	**$461.81**	**$2,848.00**
Maine	809.82	395.87	1,700.17
New Hampshire	935.23	476.78	1,815.36
Vermont	740.35	417.70	1,427.75
Massachusetts	1,025.83	437.72	3,845.35
Rhode Island	923.22	408.88	3,326.70
Connecticut	1,072.67	488.82	4,044.73
New England	**986.10**	**446.33**	**3,275.63**
New York	1,052.72	409.75	3,952.76
New Jersey	1,194.94	513.76	3,805.75
Pennsylvania	1,047.27	433.12	2,364.89
Middle Atlantic	**1,080.06**	**438.86**	**3,413.91**
Ohio	1,116.39	464.35	2,994.69
Indiana	1,030.44	455.10	2,206.62
Illinois	1,068.52	423.66	3,801.57
Michigan	911.56	362.09	2,595.85
Wisconsin	817.73	382.60	2,447.34
East North Central	**1,011.36**	**419.72**	**2,941.96**
Minnesota	879.70	420.31	1,810.85
Iowa	918.17	478.53	1,952.29
Missouri	882.69	471.25	2,823.21
North Dakota	757.22	449.67	1,846.57
South Dakota	709.19	452.95	1,825.13
Nebraska	774.03	419.48	1,876.10
Kansas	979.57	474.63	2,708.12
West North Central	**878.34**	**454.48**	**2,242.36**
Delaware	1,508.04	560.26	4,287.80
Maryland and D.C.	1,224.51	492.57	4,092.59
Virginia	1,248.06	639.57	3,960.54
West Virginia	900.00	381.62	1,862.39
North Carolina	988.36	536.29	1,980.56
South Carolina	1,110.89	557.73	2,132.15
Georgia	1,038.90	497.02	3,136.91
Florida	1,067.01	613.51	3,277.42
South Atlantic	**1,093.84**	**556.99**	**3,015.00**
Kentucky	1,199.62	458.34	2,963.85
Tennessee	1,269.29	520.95	1,080.60
Alabama	1,229.54	534.00	2,137.62
Mississippi	1,066.40	538.71	2,316.87
East South Central	**1,208.14**	**512.18**	**2,050.71**
Arkansas	1,017.92	534.99	2,597.87
Louisiana	1,333.45	566.18	2,848.86
Oklahoma	904.61	478.64	2,332.01
Texas	1,336.62	597.81	2,917.36
West South Central	**1,240.72**	**568.54**	**2,796.25**
Montana	548.24	272.98	1,114.53
Idaho	876.95	402.33	2,002.86
Wyoming	895.27	311.82	2,331.01
Colorado	735.10	317.00	2,420.38
New Mexico	979.87	368.48	2,992.97
Arizona	1,291.73	604.43	4,382.77
Utah	949.00	401.34	3,401.32
Nevada	1,190.07	528.50	2,423.28
Mountain	**946.56**	**416.28**	**2,779.35**
Washington	562.89	305.24	1,410.44
Oregon	768.83	415.01	1,600.61
California	947.98	346.29	2,971.45
Pacific	**876.90**	**346.82**	**2,622.95**
Alaska	1,082.40	563.58	4,147.92
Hawaii	1,509.81	558.10	3,097.94
Alaska & Hawaii	**1,364.89**	**559.95**	**3,460.75**

Based on revenue data in Table 59 and average number of customers data in Table 52.
r Revised.

TABLE 66A
AVERAGE ANNUAL REVENUE PER CUSTOMER
INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CERTAIN CLASS OF SERVICE – 1981

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**$1,239.67**	**$514.25**	**$3,497.21**
Maine	948.49	447.75	1,978.45
New Hampshire	1,237.04	596.12	2,158.31
Vermont	881.39	459.67	1,681.33
Massachusetts	1,228.32	510.22	4,873.22
Rhode Island	1,107.23	481.18	4,042.38
Connecticut	1,304.91	597.00	5,112.46
New England	**1,193.63**	**528.57**	**4,110.63**
New York	1,249.32	505.14	5,091.37
New Jersey	1,367.21	570.49	4,312.90
Pennsylvania	1,194.15	472.27	2,738.88
Middle Atlantic	**1,255.54**	**507.68**	**4,173.38**
Ohio	1,301.82	501.77	3,560.40
Indiana	1,216.38	465.72	2,322.48
Illinois	1,231.38	459.56	4,360.49
Michigan	1,029.85	390.66	2,905.26
Wisconsin	943.79	406.04	2,819.71
East North Central	**1,169.76**	**449.55**	**3,385.32**
Minnesota	1,047.36	353.55	1,611.44
Iowa	1,056.95	473.64	2,215.60
Missouri	1,005.12	456.50	3,195.30
North Dakota	805.80	423.19	1,519.03
South Dakota	819.07	441.29	1,995.35
Nebraska	–	–	–
Kansas	1,067.55	463.04	3,295.00
West North Central	**1,020.39**	**434.73**	**2,507.77**
Delaware	1,638.99	629.21	4,849.60
Maryland and D.C.	1,371.45	524.78	4,562.88
Virginia	1,304.15	637.63	3,993.63
West Virginia	1,017.33	434.87	2,145.04
North Carolina	1,254.90	593.98	2,369.06
South Carolina	1,540.13	646.92	2,629.35
Georgia	1,382.51	522.19	3,873.51
Florida	1,342.40	770.24	4,112.41
South Atlantic	**1,328.90**	**631.18**	**3,565.04**
Kentucky	1,093.22	455.98	2,304.62
Tennessee	1,366.48	691.02	3,148.25
Alabama	1,467.63	613.64	2,820.76
Mississippi	1,536.15	658.46	3,268.04
East South Central	**1,341.99**	**565.47**	**2,744.71**
Arkansas	1,193.27	537.76	2,501.74
Louisiana	1,818.28	666.91	3,588.16
Oklahoma	1,080.10	496.72	2,909.06
Texas	1,791.52	716.33	3,859.37
West South Central	**1,645.72**	**661.22**	**3,576.20**
Montana	600.74	274.91	1,374.45
Idaho	1,036.27	427.91	2,197.69
Wyoming	833.41	247.98	1,185.45
Colorado	853.04	332.47	3,263.62
New Mexico	1,153.94	409.64	3,579.43
Arizona	1,414.67	613.53	4,091.14
Utah	1,150.93	482.11	3,840.15
Nevada	1,240.64	543.82	2,736.51
Mountain	**1,066.40**	**436.45**	**3,028.23**
Washington	665.61	397.89	2,096.18
Oregon	913.04	462.74	2,117.76
California	1,089.63	397.84	3,441.97
Pacific	**1,034.87**	**404.34**	**3,196.78**
Alaska	662.72	339.38	1,423.20
Hawaii	2,281.62	813.59	4,444.65
Alaska & Hawaii	**2,210.66**	**793.34**	**4,309.57**

Based on revenue data in Table 60 and average number of customer data in Table 53.

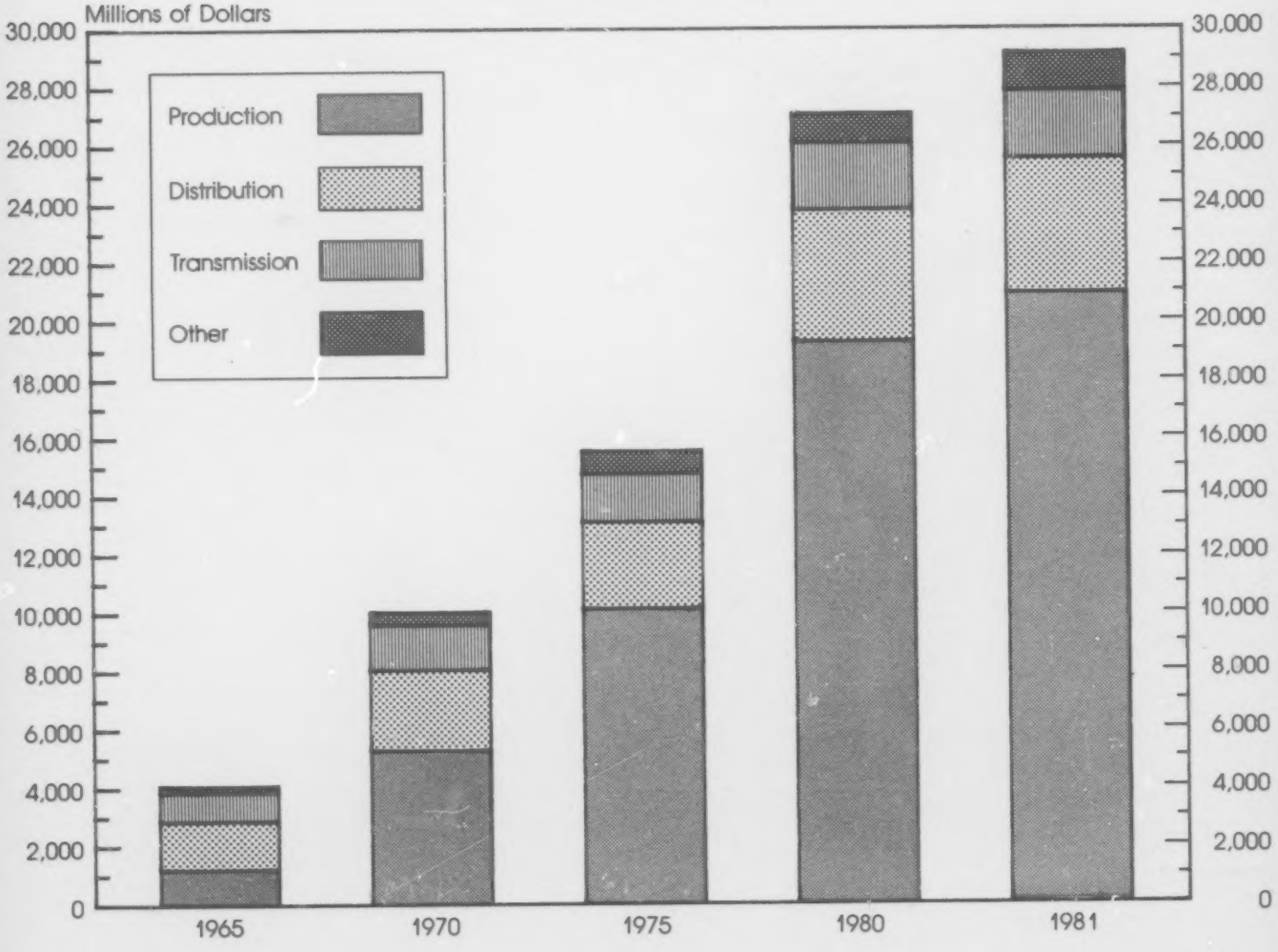
TABLE 66B
AVERAGE ANNUAL REVENUE PER CUSTOMER
INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CERTAIN CLASS OF SERVICE – 1980r

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**$1,083.26**	**$457.29**	**$3,022.55**
Maine	818.81	395.56	1,720.98
New Hampshire	963.11	476.92	1,747.05
Vermont	751.96	414.80	1,504.09
Massachusetts	1,033.16	435.20	4,021.34
Rhode Island	925.83	408.82	3,341.76
Connecticut	1,062.94	491.85	4,119.77
New England	**991.59**	**446.25**	**3,390.48**
New York	998.02	413.68	4,014.07
New Jersey	1,203.25	515.55	3,842.40
Pennsylvania	1,068.27	431.97	2,392.86
Middle Atlantic	**1,063.67**	**440.76**	**3,463.29**
Ohio	1,169.54	457.84	3,129.05
Indiana	1,124.54	440.22	2,182.78
Illinois	1,094.90	415.04	3,838.01
Michigan	932.73	363.16	2,621.10
Wisconsin	834.91	363.58	2,504.79
East North Central	**1,051.75**	**411.48**	**3,013.01**
Minnesota	965.50	334.42	1,507.27
Iowa	959.94	443.43	1,997.08
Missouri	992.54	477.42	3,101.60
North Dakota	683.39	364.21	1,315.66
South Dakota	724.81	391.64	1,775.90
Nebraska	—	—	—
Kansas	1,022.29	479.95	3,027.62
West North Central	**961.27**	**429.42**	**2,343.65**
Delaware	1,568.90	558.23	4,505.16
Maryland and D.C.	1,243.03	480.72	4,105.33
Virginia	1,296.31	632.35	3,976.99
West Virginia	903.76	381.53	1,870.95
North Carolina	1,088.45	525.76	2,026.95
South Carolina	1,336.37	579.73	2,250.78
Georgia	1,280.32	494.35	3,560.27
Florida	1,093.78	616.52	3,417.49
South Atlantic	**1,175.64**	**553.94**	**3,149.83**
Kentucky	991.98	412.37	1,658.66
Tennessee	1,191.03	595.78	2,659.98
Alabama	1,333.96	572.62	2,567.78
Mississippi	1,278.25	561.72	2,686.31
East South Central	**1,195.16**	**511.86**	**2,284.48**
Arkansas	1,116.35	497.79	2,440.47
Louisiana	1,485.03	551.74	2,931.34
Oklahoma	960.19	463.74	2,512.58
Texas	1,493.33	622.25	3,175.97
West South Central	**1,384.02**	**575.86**	**2,986.46**
Montana	503.78	238.04	1,129.72
Idaho	948.32	413.88	2,101.54
Wyoming	648.95	210.59	885.89
Colorado	762.18	298.94	2,819.08
New Mexico	1,045.32	379.87	3,164.05
Arizona	1,336.42	587.93	4,016.58
Utah	1,031.19	436.50	3,447.17
Nevada	1,191.14	541.72	2,485.73
Mountain	**967.90**	**406.38**	**2,719.39**
Washington	571.08	347.13	1,665.63
Oregon	786.73	424.27	1,576.56
California	980.35	361.62	3,132.18
Pacific	**924.80**	**366.61**	**2,826.60**
Alaska	627.39	328.22	1,322.02
Hawaii	1,509.81	558.10	3,097.94
Alaska & Hawaii	**1,470.05**	**547.98**	**3,017.02**

Based on revenue data in Table 60 and average number of customer data in Table 53.
r Revised.

FINANCIAL
SECTION IX

Chart IX-A
CONSTRUCTION EXPENDITURES
INVESTOR-OWNED UTILITIES



Based on Table 69, page 78.

TABLE 69
CONSTRUCTION EXPENDITURES – INVESTOR-OWNED ELECTRIC UTILITIES
BY TYPE OF ELECTRIC UTILITY PLANT
MILLIONS OF DOLLARS

	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971
Production											
Steam	$ 7,221	$ 7,498	$ 7,572	$ 6,664	$ 6,529	$ 5,689	$ 5,062	$ 5,323	$ 4,923	$ 4,306	$ 3,507
Nuclear	12,785	11,045	9,855	8,813	7,273	5,815	4,545	3,969	3,270	2,920	2,410
Other	906	695	854	655	614	460	487	802	662	691	620
Total	**20,912**	**19,238**	**18,281**	**16,132**	**14,416**	**11,964**	**10,094**	**10,094**	**8,855**	**7,917**	**6,537**
Transmission	2,270	2,353	2,090	1,738	1,687	1,882	1,771	2,145	1,878	1,749	1,818
Distribution	4,606	4,483	4,334	3,875	3,390	2,974	3,075	3,583	3,568	3,192	2,869
General/Miscellaneous*	1,336	937	776	1,192	788	590	710	880	758	605	633
Subtotal	**29,124**	**27,011**	**25,481**	**22,937**	**20,281**	**17,360**	**15,650**	**16,702**	**15,059**	**13,463**	**11,857**
Nuclear Fuel	1,566	1,324	1,338	1,093	1,016	798	541	490	232	265	361
GRAND TOTAL	**$30,690**	**$28,335**	**$26,819**	**$24,030**	**$21,297**	**$18,158**	**$16,191**	**$17,192**	**$15,291**	**$13,728**	**$12,218**
AFUDC included in TOTAL	$ 5,358	$ 4,365	$ 3,593	$ 2,717	$ 2,267	$ 1,854	$ 1,676	$ 1,576	$ 1,277	$ 1,078	$ 809

	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961
Production										
Steam	$ 2,790	$ 2,227	$ 2,076	$ 1,735	$ 1,294	$ 987	$N/A	$N/A	$N/A	$N/A
Nuclear	1,641	1,120	679	433	126	56	N/A	N/A	N/A	N/A
Other	818	550	347	311	220	185	N/A	N/A	N/A	N/A
Total	**5,249**	**3,897**	**3,102**	**2,479**	**1,640**	**1,228**	**1,115**	**1,083**	**1,057**	**1,183**
Transmission	1,625	1,555	1,378	1,329	1,161	923	754	609	571	552
Distribution	2,751	2,511	2,299	2,102	1,851	1,666	1,502	1,339	1,276	1,154
General/Miscellaneous*	422	394	339	294	289	238	187	209	133	111
Subtotal	**10,047**	**8,357**	**7,118**	**6,204**	**4,941**	**4,055**	**3,558**	**3,240**	**3,037**	**3,000**
Nuclear Fuel	217	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GRAND TOTAL	**$10,264**	**$ 8,357**	**$ 7,118**	**$ 6,204**	**$ 4,941**	**$ 4,055**	**$ 3,558**	**$ 3,240**	**$ 3,037**	**$ 3,000**
AFUDC included in TOTAL	$ 583	$ 398	$ 270	$ 185	$ 126	$ 92	$ 84	$ 77	$ 88	$ 84

This table has been restructured based on data submitted to the Institute. Data, compiled on a 50 state basis, now includes nuclear fuel and reflects the amount of AFUDC in the total.

Construction expenditures are, in general, the gross amounts spent for construction of all kinds, including the acquisition of real estate and all necessary equipment.

The figures include money spent for replacements, additions, and betterments (but not for maintenance of existing plant) as well as for new construction.

*Includes intangible plant.

N/A Not available.

TABLE 70
COMBINED BALANCE SHEETS – YEAR ENDED DECEMBER 31ST
INVESTOR-OWNED ELECTRIC UTILITIES
INTERCOMPANY TRANSACTIONS ELIMINATED
MILLIONS OF DOLLARS

	1981	1980	1979	1978	1977	1976
ASSETS						
Utility Plant:						
Electric	$290,723	$265,233	$241,401	$216,795	$196,010	$177,274
Accumulated Provision for Depreciation and Amortization	58,783	53,324	49,161	44,211	39,886	35,870
Net Electric Utility Plant	231,940	211,909	192,240	172,584	156,124	141,404
Nuclear Fuel	7,449	6,704	5,788	4,749	3,610	2,770
Accumulated Provision for Amortization of Nuclear Fuel Assemblies	3,324	2,754	2,029	1,566	999	682
Net Nuclear Fuel	4,125	3,950	3,759	3,183	2,611	2,088
Net Total Electric Utility Plant	236,065	215,859	195,999	175,767	158,735	143,492
Other	16,241	14,673	13,775	12,700	12,376	11,678
Accumulated Provision for Depreciation and Amortization	4,959	4,502	4,130	3,743	3,517	3,154
Net Other Utility Plant	11,282	10,171	9,645	8,957	8,859	8,524
Total Utility Plant	314,413	286,610	260,964	234,244	211,996	191,722
Accumulated Provision for Depreciation and Amortization	67,066	60,580	55,320	49,520	44,402	39,706
Net Total Utility Plant	247,347	226,030	205,644	184,724	167,594	152,016
Other Property and Investment	5,737	4,593	4,006	3,262	2,821	2,454
Total Current and Accrued Assets	28,100	25,928	21,644	18,419	17,640	15,026
Total Deferred Debits*	6,532	5,064	4,465	3,274	2,677	2,087
Total Assets*	$287,716	$261,615	$235,759	$209,679	$190,732	$171,583
LIABILITIES						
Capitalization:						
Common Capital Stock	$ 35,406	$ 32,616	$ 29,179	$ 26,625	$ 24,283	$ 21,889
Other Paid-In Capital						
Excluding Retained Earnings**	20,838	20,509	18,538	16,458	14,592	12,319
Retained Earnings*	27,511	24,865	23,035	21,250	19,450	17,729
Total Common Capital Stock Equity*	86,755	77,990	70,752	64,333	58,325	51,937
Preferred Stock	26,817	25,755	23,881	21,565	20,019	18,384
Long-Term Debt:						
Mortgage Bonds	93,783	88,579	82,014	76,534	72,462	67,667
Other Long-Term Debt	20,780	16,978	14,244	10,954	9,523	8,160
Total Long-Term Debt	114,563	105,557	96,258	87,488	81,985	75,827
Total Capitalization*	228,136	209,302	190,891	173,386	160,329	146,148
Total Current and Accrued Liabilities	32,395	29,564	25,990	20,511	16,983	15,435
Contribution in Aid of Construction	115	91	82	70	63	52
Deferred Income Taxes	15,931	13,341	10,449	8,838	7,431	5,938
Deferred Investment Tax Credits	8,271	7,133	6,343	5,253	4,116	2,834
Other Deferred Credits and Operating Reserves†	2,869	2,184	2,004	1,621	1,810	1,176
Total Liabilities*	$287,716	$261,615	$235,759	$209,679	$190,732	$171,583

Note: Total may not equal sum of components due to independent rounding.
*Figures revised (1976–1979) due to reclassification of Capital Stock Expense from "Total Deferred Debits" to "Retained Earnings."
**Includes Premium on Common and Preferred Stock.
†"Total Deferred Credits and Operating Reserves" has been retitled "Other Deferred Credits and Operating Reserves." Deferred Investment Tax Credits, previously included in "Total Deferred Credits and Operating Reserves," are now shown as a separate item.

TABLE 71
COMBINED INCOME STATEMENTS – YEAR ENDED DECEMBER 31ST
INVESTOR-OWNED ELECTRIC UTILITIES
INTERCOMPANY TRANSACTIONS ELIMINATED
MILLIONS OF DOLLARS

	1981	1980	1979	1978	1977	1976
	ELECTRIC DEPARTMENT ONLY					
Operating Revenues	$ 94,270	$80,636	$68,152	$61,299	$55,142	$47,080
Operating Expenses:						
Operation	52,563	44,841	36,592	31,811	28,181	23,257
Maintenance	6,279	5,616	4,788	4,153	3,528	2,918
Depreciation and Depletion	6,690	6,079	5,628	5,120	4,640	4,217
Amortization Charged to Operation	103	40	33	31	14	9
Property Losses Charged to Operation	100	74	45	21	15	14
Taxes Other Than Income Taxes	6,565	5,866	5,300	4,985	4,649	4,183
Federal Income Taxes	1,704	1,242	660	921	739	524
State Income Taxes	379	307	244	271	225	178
Deferred Income Taxes:						
Due to Liberalized Depreciation	1,641	1,409	1,331	1,283	1,070	979
Due to Accelerated Amortization	15	29	14	30	20	34
Charges in Lieu of Taxes	552	561	480	268	372	181
Investment Tax Credit Adjustments*	1,333	854	1,098	1,282	1,349	1,142
Total Operating Expenses	77,922	66,918	56,213	50,176	44,802	37,636
Operating Income	$ 16,347	$13,718	$11,939	$11,123	$10,340	$ 9,444
	ALL DEPARTMENTS					
Operating Revenues	$111,506	$95,326	$80,021	$71,042	$63,884	$54,789
Operating Expenses:						
Operation	66,553	56,720	46,050	39,354	34,904	28,978
Maintenance	6,728	6,003	5,137	4,451	3,820	3,169
Depreciation and Depletion	7,221	6,552	6,043	5,490	4,995	4,553
Amortization Charged to Operation	120	55	34	34	15	10
Property Losses Charged to Operation	101	76	46	21	16	16
Taxes Other Than Income Taxes	7,451	6,580	5,897	5,542	5,180	4,676
Federal Income Taxes	1,854	1,328	821	1,086	819	641
State Income Taxes	405	331	267	290	242	196
Deferred Income Taxes:						
Due to Liberalized Depreciation	1,716	1,480	1,383	1,310	1,107	1,008
Due to Accelerated Amortization	20	30	14	32	24	44
Charges in Lieu of Taxes	573	647	478	287	401	181
Investment Tax Credit Adjustments*	1,386	897	1,134	1,315	1,380	1,193
Total Operating Expenses	94,127	80,699	67,304	59,212	52,903	44,665
Operating Income	17,378	14,627	12,717	11,830	10,981	10,124
Other Income (Non-Operating) Net	1,733	1,232	918	715	579	529
Allowance for Other Funds Used During Construction	2,939	2,533	2,189	1,684	1,425	1,896
Income Before Interest Charges (Gross Income)	22,050	18,392	15,824	14,229	12,985	12,549
Interest Charges:						
Interest on Long-Term Debt	10,213	8,488	7,198	6,343	5,735	5,202
Interest on Short-Term Debt	1,261	1,142	597	314	221	226
Amortization of Debt Discount Expense and Premium	59	44	35	33	28	21
Other Interest Expense	438	285	218	154	133	117
Allowance for Borrowed Funds Used During Construction – Credit	(2,550)	(2,094)	(1,538)	(1,223)	(942)	–
Total Interest Charges	9,421	7,865	6,510	5,621	5,175	5,566
Income Before Extraordinary Items	12,628	10,527	9,314	8,608	7,810	6,983
Extraordinary Items	28	2	(12)	(34)	3	7
Net Income	12,656	10,529	9,302	8,574	7,813	6,990
Preferred Dividend Charges	2,251	2,042	1,750	1,592	1,488	1,347
Available for Common Stock	10,405	8,487	7,552	6,982	6,325	5,643
Common Dividends	7,587	6,429	5,587	4,956	4,322	3,771
Net Income After Dividends	$ 2,818	$ 2,058	$ 1,965	$ 2,026	$ 2,003	$ 1,872

Note: Total may not equal sum of components due to independent rounding.
*Investment Tax Credit Adjustments, previously included in "Charges in Lieu of Taxes," are now shown as a separate item.
( ) Denotes credit or negative value.

TABLE 72
DETAIL OF ELECTRIC OPERATION & MAINTENANCE EXPENSES
INVESTOR-OWNED ELECTRIC UTILITIES
MILLIONS OF DOLLARS

	1981	1980	1979	1978	1977	1976
Production	$47,281	$40,396	$32,575	$28,137	$24,746	$19,949
Transmission and Distribution	4,172	3,761	3,360	3,006	2,702	2,459
Customer Accounts	1,858	1,592	1,362	1,312	1,253	1,155
Customer Service and Information	396	302	279	*	*	*
Sales	31	33	45	179	86	82
Administrative and General	5,104	4,373	3,759	3,330	2,919	2,530
Total Operation & Maintenance Expenses	**$58,842**	**$50,457**	**$41,380**	**$35,964**	**$31,709**	**$26,175**
Cost of Fuel**	$37,165	$31,622	$26,281	$22,225	$20,122	$16,239

Note: Total may not equal sum of components due to independent rounding.
*Data for this item not reported separately prior to 1979.
**Included in "Total Operation & Maintenance Expenses."

TABLE 73
DETAIL OF TAXES – ELECTRIC DEPARTMENT ONLY
INVESTOR-OWNED ELECTRIC UTILITIES
MILLIONS OF DOLLARS

	1981		1980		1979	
	Amount	% of Oper. Revenue	Amount	% of Oper. Revenue	Amount	% of Oper. Revenue
Federal Taxes						
Income	$ 1,702	1.8%	$ 1,242	1.5%	$ 660	1.0%
Deferred Taxes on Income	1,541	1.6	1,347	1.7	1,255	1.8
Other Charges in Lieu of Taxes*	1,871	2.0	1,392	1.7	1,574	2.3
Miscellaneous Taxes	544	0.6	432r	0.5r	379	0.6
Total Federal Taxes Charged to Income	5,658	6.0	4,413r	5.4r	3,868	5.7
State and Local Taxes	6,537	6.9	5,855r	7.3r	5,259	7.7
Total Taxes Charged to Income	**$12,195**	**12.9%**	**$10,268**	**12.7%**	**$9,127**	**13.4%**

	1978		1977		1976	
	Amount	% of Oper. Revenue	Amount	% of Oper. Revenue	Amount	% of Oper. Revenue
Federal Taxes						
Income	$ 921	1.5%	$ 739	1.4%	$ 524	1.1%
Deferred Taxes on Income	1,228	2.0	1,005	1.8	940	2.0
Other Charges in Lieu of Taxes*	1,535	2.5	1,715	3.1	1,310	2.8
Miscellaneous Taxes	322	0.5	328	0.6	283	0.6
Total Federal Taxes Charged to Income	4,006	6.5	3,787	6.9	3,057	6.5
State and Local Taxes	5,034	8.2	4,637	8.4	4,164	8.8
Total Taxes Charged to Income	**$ 9,040**	**14.7%**	**$ 8,424**	**15.3%**	**$7,221**	**15.3%**

Note: Total may not equal sum of components due to independent rounding.
*Includes investment tax credits reported as charges to income for the current year.
r Revised.

TABLE 74
CAPITALIZATION AND CAPITALIZATION RATIOS
INVESTOR-OWNED ELECTRIC UTILITIES
MILLIONS OF DOLLARS

	1981	1980	1979	1978	1977	1976
CAPITALIZATION OUTSTANDING						
Mortgage Bonds	$ 93,783	$ 88,579	$ 82,014	$ 76,534	$ 72,462	$ 67,667
Other Long-Term Debt	20,780	16,978	14,244	10,954	9,523	8,160
Total Long-Term Debt	**114,563**	**105,557**	**96,258**	**87,488**	**81,985**	**75,827**
Preferred Stock	26,817	25,755	23,881	21,565	20,019	18,384
Common Capital Stock	35,406	32,616	29,179	26,625	24,283	21,889
Other Paid-In Capital Excluding Retained Earnings*	23,838	20,509	18,538	16,458	14,592	12,319
Retained Earnings**	27,511	24,865	23,035	21,250	19,450	17,729
Total Capitalization**	**$228,135**	**$209,302**	**$190,891**	**$173,386**	**$160,329**	**$146,148**
CAPITALIZATION RATIOS**						
Mortgage Bonds	41.1%	42.3%	42.9%	44.2%	45.2%	46.3%
Other Long-Term Debt	9.1	8.1	7.5	6.3	5.9	5.6
Total Long-Term Debt	**50.2**	**50.4**	**50.4**	**50.5**	**51.1**	**51.9**
Preferred Stock	11.8	12.3	12.5	12.4	12.5	12.6
Common Capital Stock Equity	38.0	37.3	37.1	37.1	36.4	35.5
Total Capitalization	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Note: Total may not equal sum of components due to independent rounding.
*Includes Premium on Common and Preferred Stock.
**Figures revised (1976–1979) due to reclassification of Capital Stock Expense. Refer to Table 70 for specific details.

TABLE 75
PUBLIC UTILITY LONG-TERM FINANCING – INVESTOR-OWNED UTILITIES
BY YEAR, TYPE OF ISSUE, PURPOSE AND TYPE OF UTILITY
1976–1981 – THOUSANDS OF DOLLARS

	1981	1980	1979	1978	1977	1976
ELECTRIC UTILITIES						
LONG-TERM DEBT:						
New Capital	$ 8,576,941	$ 7,847,006	$ 7,223,256	$ 6,867,909	$ 7,388,630	$ 6,199,590
Refunding	351,954	461,294	638,804	334,971	792,550	529,750
Divestment	–	–	–	–	–	–
Total Long-Term Debt	8,928,895	8,308,300	7,862,060	7,202,880	8,181,180	6,729,340
PREFERRED STOCK:						
New Capital	1,173,750	2,003,000	2,288,848	1,671,500	1,873,341	1,567,337
Refunding	–	7,500	75,300	107,405	122,740	48,170
Divestment	–	–	–	–	–	–
Total Preferred	1,173,750	2,010,500	2,364,148	1,778,905	1,996,081	1,615,507
COMMON STOCK:						
New Capital	4,089,481	4,063,303	3,356,088	3,316,523	3,792,686	3,836,756
Refunding	–	–	–	61,600	5,000	39,775
Divestment	–	–	–	–	–	–
Total Common	4,089,481	4,063,303	3,356,088	3,378,123	3,797,686	3,876,531
TOTAL CAPITAL:						
New Capital	13,840,172	13,913,309	12,868,192	11,855,932	13,054,657	11,603,683
Refunding	351,954	468,794	714,104	503,976	920,290	617,695
Divestment	–	–	–	–	–	–
Total Capital	$14,192,126	$14,382,103	$13,582,296	$12,359,908	$13,974,947	$12,221,378
GAS UTILITIES*						
LONG-TERM DEBT:						
New Capital	$ 1,669,000	$ 924,500	$ 808,211	$ 543,650	$ 663,970	$ 1,685,864
Refunding	116,000	10,000	203,789	43,350	105,030	95,636
Divestment	–	–	–	–	–	–
Total Long-Term Debt	1,785,000	934,500	1,012,000	587,000	769,000	1,781,500
PREFERRED STOCK:						
New Capital	130,000	276,000	215,000	218,550	85,300	330,250
Refunding	–	–	–	–	3,200	–
Divestment	–	–	–	–	–	–
Total Preferred	130,000	276,000	215,000	218,550	88,500	330,250
COMMON STOCK:						
New Capital	192,463	351,000	193,505	145,594	89,832	180,904
Refunding	–	–	–	–	–	6,300
Divestment	–	–	235,227	–	–	–
Total Common	192,463	351,000	428,732	145,594	89,832	187,204
TOTAL CAPITAL:						
New Capital	1,991,463	1,551,500	1,216,716	907,794	839,102	2,197,018
Refunding	116,000	10,000	203,789	43,350	108,230	101,936
Divestment	–	–	235,227	–	–	–
Total Capital	$ 2,107,463	$ 1,561,500	$ 1,655,732	$ 951,144	$ 947,332	$ 2,298,954
ALL OTHER UTILITIES†						
LONG-TERM DEBT:						
New Capital	$ 3,578,000	$ 5,775,000	$ 3,841,750	$ 2,829,500	$ 1,778,379	$ 1,811,275
Refunding	168,000	240,000	110,000	275,000	1,066,621	488,725
Divestment	–	–	–	–	–	–
Total Long-Term Debt	3,746,000	6,015,000	3,951,750	3,104,500	2,845,000	2,300,000
PREFERRED STOCK:						
New Capital	–	83,000	130,000	164,650	1,000	175,259
Refunding	–	–	–	20,000	16,500	4,741
Divestment	–	–	–	–	–	–
Total Preferred	–	83,000	130,000	184,650	17,500	180,000
COMMON STOCK:						
New Capital	984,053	40,916	415,659	35,266	917,342	659,875
Refunding	–	–	76,556	2,550	–	–
Divestment	–	–	–	–	–	–
Total Common	984,053	40,916	492,215	37,816	917,342	659,875
TOTAL CAPITAL:						
New Capital	4,562,053	5,898,916	4,387,409	3,029,416	2,696,721	2,646,409
Refunding	168,000	240,000	186,556	297,550	1,083,121	493,466
Divestment	–	–	–	–	–	–
Total Capital	$ 4,730,053	$ 6,138,916	$ 4,573,965	$ 3,326,966	$ 3,779,842	$ 3,139,875
TOTAL UTILITY FINANCING						
LONG-TERM DEBT:						
New Capital	$13,823,941	$14,546,506	$11,873,217	$10,241,059	$ 9,830,979	$ 9,696,729
Refunding	635,954	711,294	952,593	653,321	1,964,201	1,114,111
Divestment	–	–	–	–	–	–
Total Long-Term Debt	14,459,895	15,257,800	12,825,810	10,894,380	11,795,180	10,810,840
PREFERRED STOCK:						
New Capital	1,303,750	2,362,000	2,633,848	2,054,700	1,959,641	2,072,846
Refunding	–	7,500	75,300	127,405	142,440	52,911
Divestment	–	–	–	–	–	–
Total Preferred	1,303,750	2,369,500	2,709,148	2,182,105	2,102,081	2,125,757
COMMON STOCK:						
New Capital	5,265,997	4,455,219	3,965,252	3,497,383	4,799,860	4,677,535
Refunding	–	–	76,556	64,150	5,000	46,075
Divestment	–	–	235,227	–	–	–
Total Common	5,265,997	4,455,219	4,277,035	3,561,533	4,804,860	4,723,610
TOTAL CAPITAL:						
New Capital	20,393,688	21,363,725	18,472,317	15,793,142	16,590,480	16,447,110
Refunding	635,954	718,794	1,104,449	844,876	2,111,641	1,213,097
Divestment	–	–	235,227	–	–	–
Total Capital	$21,029,642	$22,082,519	$19,811,993	$16,638,018	$18,702,121	$17,660,207

Classification as to type of utility is based upon predominant source of revenue. *Includes gas pipe line companies.
†"Other Utilities" are water, transit, telephone and telegraph. Does not include railroads.
Note: Includes negotiated sales of pollution control bonds: 1981, $1,767 million; 1980, $982.4 million; 1979, $1,297.8 million; 1978, $966.6 million; 1977, $1,804.2 million; and 1976, $1,027.8 million.
Source: Ebasco Business Consulting Co.

TABLE 76
WEIGHTED AVERAGE OF YIELDS ON NEWLY ISSUED DOMESTIC BONDS AND PREFERRED STOCKS
1961–1981

Year	Utility Bonds				Industrial Bonds	Preferred Stocks
	Electric and Gas	Telephone	Water Works	All Utilities		All Utilities
1981	**16.31%**	**15.45%**	**....**	**16.30%**	**15.16%**	**15.11%**
1980	13.46	12.59	....	13.09	11.66	12.28
1979	10.85	10.29	....	10.64	9.49	9.76
1978	9.30	9.07	....	9.22	8.98	9.03
1977	8.43	8.21	....	8.38	8.15	8.43
1976	8.92	8.41	....	8.80	8.61	9.12
1975	9.97	9.27	....	9.76	9.12	10.63
1974	9.59	9.22	....	9.21	8.87	9.95
1973	7.91	7.87	....	7.88	7.86	7.50
1972	7.50	7.36	....	7.46	7.51	7.53
1971	7.72	7.58	....	7.71	7.80	7.74
1970	8.79	8.75	....	8.85	8.86	9.01
1969	7.98	8.00	....	7.99	7.84	7.75
1968	6.80	6.55	7.17%	6.72	6.64	6.44
1967	6.07	5.77	6.01	6.01	5.79	6.03
1966	5.53	5.51	5.02	5.61	5.52	5.37
1965	4.61	4.61	4.79	4.68	4.80	....
1964	4.55	4.55	4.61	4.56	4.51	4.74
1963	4.40	4.29	4.90	4.39	4.42	4.72
1962	4.40	4.55	4.89	4.44	4.53	4.63
1961	4.72	4.63	5.39	4.70	4.70	5.16

Source: Moody's Investors Service.

TABLE 77
MOODY'S AVERAGE YIELDS ON UTILITY BONDS AND STOCKS
BY MOODY'S BOND RATINGS AND STOCK QUALITY GROUPS
1971–1981

	BONDS					PREFERRED STOCKS			COMMON STOCKS					
		Rating							High Quality		Good Quality		Medium Quality	
End of Month	Over-all* Average	Aaa	Aa	A	Baa	Aa High Quality	A Good Quality	Baa Medium Quality	Yield	E/P Ratio†	Yield	E/P Ratio†	Yield	E/P Ratio†
1981														
December	16.23%	14.88%	15.90%	16.68%	17.45%	14.97%	15.47%	15.83%	11.01%	16.19%	11.72%	14.43%	13.53%	17.58%
September	17.56	16.74	17.43	17.84	18.21	14.68	15.28	16.01	11.52	16.74	12.01	14.73	13.96	18.07
June	15.49	14.47	15.06	15.84	16.60	13.75	14.15	15.02	10.94	15.78	11.70	14.05	12.88	16.95
March	14.86	13.96	14.61	15.17	15.69	13.35	13.72	14.57	11.71	16.51	12.20	15.21	13.30	17.63
1980														
December	14.11	13.18	13.91	14.14	15.20	13.15	14.01	14.56	11.49	15.65	12.36	16.86	13.27	17.01
September	13.68	12.91	13.49	13.74	14.58	12.02	12.92	13.76	11.37	15.46	11.83	16.01	12.77	15.71
June	12.04	11.30	11.84	12.22	12.81	10.59	10.97	12.05	10.24	13.41	10.65	14.36	11.52	13.22
March	14.57	13.35	14.57	14.96	15.41	13.09	14.74	15.22	12.15	15.50	12.52	18.27	13.93	19.11
1979														
December	11.85	11.09	11.62	11.97	12.71	10.86	11.49	12.75	10.57	15.89	11.00	15.61	12.23	14.86
September	10.39	9.75	10.10	10.62	11.08	9.60	10.34	10.97	9.81	14.82	10.37	15.29	10.92	13.71
June	9.90	9.39	9.73	10.04	10.45	9.03	9.55	10.49	9.18	13.87	9.63	14.24	10.31	12.93
March	10.02	9.60	9.90	10.06	10.51	9.10	9.63	10.33	9.13	13.73	9.66	14.16	10.04	13.04
1978														
December	9.82	9.47	9.65	9.84	10.31	8.94	9.65	10.48	9.38	13.19	9.89	13.89	10.01	12.77
September	9.23	8.91	9.15	9.29	9.57	8.43	8.82	9.62	8.37	11.80	8.88	12.82	9.15	11.99
June	9.36	8.99	9.24	9.46	9.73	8.84	9.39	9.81	8.35	11.87	8.95	12.74	9.20	12.41
March	8.97	8.61	8.80	8.99	9.47	8.35	8.79	9.24	8.35	12.46	8.82	12.66	8.86	11.39
1977														
December	8.75	8.39	8.63	8.77	9.21	8.14	8.59	9.03	7.55	12.32	8.04	12.30	8.43	11.27
September	8.47	8.12	8.37	8.48	8.89	7.95	8.32	8.87	7.29	12.49	7.83	11.96	8.25	11.84
June	8.46	8.07	8.29	8.52	8.97	8.03	8.47	8.92	7.23	12.34	7.57	11.45	8.23	11.86
March	8.70	8.26	8.55	8.77	9.22	8.21	8.75	9.01	7.32	13.01	7.74	12.04	8.68	12.77
1976														
December	8.54	8.05	8.37	8.59	9.16	8.28	8.80	9.15	7.18	11.36	7.79	11.73	8.23	11.17
September	8.87	8.57	8.65	8.81	9.45	8.58	9.04	9.45	7.39	11.31	7.82	11.44	8.60	11.26
June	9.36	8.87	9.08	9.43	10.06	8.92	9.46	9.79	8.40	12.72	8.84	12.99	9.28	12.15
March	9.34	8.67	9.07	9.58	10.04	8.92	9.52	9.73	8.13	11.99	8.51	13.08	9.11	12.15
1975														
December	9.79	8.94	9.44	10.03	10.75	9.41	10.39	10.67	7.47	10.75	7.85	11.04	9.61	14.18
September	10.01	9.25	9.66	10.24	10.90	9.78	10.71	11.11	8.34	12.05	8.78	12.30	11.01	15.64
June	9.79	8.99	9.37	9.97	10.84	9.34	10.88	11.12	7.22	10.54	8.07	11.03	10.18	13.25
March	9.72	8.99	9.29	9.83	10.75	9.31	10.48	11.00	8.23	12.19	9.31	12.96	12.46	14.89
1974														
December	10.13	9.08	9.47	10.44	11.52	10.17	11.20	11.72	8.88	13.61	10.81	17.95	15.51	18.49
September	10.28	9.54	10.12	10.64	10.80	10.41	10.94	11.70	9.05	14.22	10.62	17.60	14.00	16.91
June	9.22	8.71	9.06	9.50	9.60	9.32	9.64	10.00	8.79	13.47	10.16	15.86	12.16	15.48
March	8.56	8.25	8.48	8.60	8.92	8.06	8.61	8.74	7.51	11.51	7.99	11.70	8.66	11.19
1973														
December	8.21	7.90	8.10	8.24	8.59	8.04	8.35	8.24	8.06	11.27	8.24	11.19	7.75	10.91
September	8.07	7.76	7.92	8.08	8.52	7.72	8.04	8.08	6.84	9.52	6.92	10.32	7.08	9.97
June	7.73	7.53	7.63	7.78	7.97	7.53	7.62	7.75	6.88	9.65	6.93	10.19	7.26	10.38
March	7.67	7.44	7.52	7.69	8.01	7.39	7.53	7.60	6.42	9.34	6.69	9.83	6.72	9.80
1972														
December	7.48	7.29	7.39	7.51	7.74	7.32	7.56	7.77	5.52	8.07	6.07	8.91	6.27	9.05
September	7.63	7.42	7.50	7.64	7.96	7.37	7.61	7.82	6.12	9.18	6.47	9.72	6.94	9.58
June	7.77	7.41	7.57	780	8.30	7.28	7.43	7.71	6.37	9.31	6.73	9.93	6.72	9.40
March	7.81	7.53	7.69	7.76	8.25	6.99	7.26	7.58	5.96	8.55	6.23	8.88	6.42	8.87
1971														
December	7.87	7.50	7.76	7.80	8.40	7.20	7.48	7.87	5.65	7.84	5.81	8.25	6.06	8.31
September	8.10	7.76	7.95	8.23	8.45	7.28	7.55	8.06	6.23	8.56	6.18	8.99	6.46	8.98
June	8.35	7.98	8.20	8.45	8.77	7.31	7.58	8.13	5.95	8.00	5.65	7.91	6.17	8.32
March	8.03	7.56	7.98	7.99	8.59	6.91	7.11	7.74	5.55	7.51	5.36	7.71	5.80	7.83

Note: Yields shown under preferred stocks and common stocks represent averages of ten companies in each quality group.
*Average yield for 40 utility bonds, ten in each of the four top quality ratings shown.
†Ratio in percent is obtained by dividing earnings per share by market price per share.
Source: Moody's Investors Service.

TABLE 78
MOODY'S 24 UTILITY COMMON STOCKS – END-OF-MONTH AVERAGES

Year	Average	January	February	March	April	May	June	July	August	September	October	November	December
						MARKET PRICE – WEIGHTED AVERAGE – $ PER SHARE							
1982	...	**57.95**	**60.16**	**60.77**	**63.15**	**63.23**	**61.15**	**59.16**					
1981	55.41	53.19	52.61	54.43	53.43	54.00	56.04	56.33	56.92	54.99	56.01	59.83	57.20
1980	54.80	54.57	49.93	50.16	57.14	58.51	60.08	57.83	56.40	54.51	52.63	51.44	54.42
1979	60.28	63.99	62.14	62.36	58.69	60.35	61.03	61.41	62.05	59.79	55.84	59.27	56.41
1978	63.54	65.23	64.66	64.95	63.46	63.77	63.56	65.39	65.16	64.90	60.10	61.54	59.75
1977	67.55	66.45	64.90	64.84	66.03	67.36	70.23	70.56	67.91	68.53	66.82	68.76	68.19
						DIVIDEND RATE – WEIGHTED AVERAGE – $ PER SHARE							
1982	...	**7.20**	**7.22**	**7.31**	**7.32**	**7.42**	**7.44**	**7.48**					
1981	6.99	6.83	6.85	6.85	6.87	6.91	6.96	6.99	6.99	7.13	7.13	7.15	7.16
1980	6.58	6.45	6.52	6.52	6.53	6.56	6.58	6.59	6.60	6.65	6.65	6.67	6.67
1979	6.22	6.07	6.07	6.16	6.16	6.17	6.20	6.22	6.26	6.31	6.32	6.33	6.34
1978	5.81	5.76	5.77	5.77	5.78	5.78	5.79	5.80	5.80	5.83	5.83	5.87	5.98
1977	5.54	5.39	5.40	5.51	5.52	5.54	5.55	5.87	5.57	5.57	5.58	5.59	5.68
						YIELD – %							
1982	...	**12.42**	**12.00**	**12.03**	**11.39**	**11.73**	**12.17**	**12.64**					
1981	12.62	12.84	13.02	12.59	12.86	12.80	12.42	12.41	12.30	12.97	12.73	11.95	12.52
1980	12.01	11.82	13.06	13.00	11.43	11.21	10.95	11.40	11.70	12.20	12.64	12.97	12.26
1979	10.34	9.49	9.77	9.88	10.50	10.22	10.16	10.13	10.09	10.55	11.32	10.68	11.24
1978	9.14	8.83	8.92	8.88	9.11	9.06	9.11	8.87	8.90	8.98	9.70	9.54	10.01
1977	8.20	8.11	8.32	8.50	8.36	8.22	7.90	7.89	8.20	8.13	8.35	8.13	8.33

	EARNINGS – WEIGHTED AVERAGE – $ PER SHARE			
	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
1982	**9.77**	...	...	...
1981	9.35	9.59	10.11	10.16
1980	8.69	8.58	8.75	8.98
1979	8.87	8.88	9.20	8.95
1978	8.27	8.37	8.36	8.59
1977	8.89	8.91	8.90	8.64

Note: Quarterly earnings are for the 12 months ended March 31, June 30, September 30 and December 31.
Source: Moody's Investors Service.

ECONOMICS AND OTHER
SECTION X

TABLE 82
CONSUMER PRICE INDEX, 1958–1981
1967 Equals 100

Year	All Items		Food and Beverages		Housing	
	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year
1981*	**272.4**	**10.4**	**267.3**	**7.8**	**293.5**	**11.5**
1980*	246.8	13.5	248.0	8.5	263.3r	15.8
1979*	217.4	11.3	228.5	10.8	227.6	12.2
1978*	195.4	7.7	206.3	9.7	202.8	8.7
1977	181.5	6.5	188.0	6.0	186.5	6.8
1976	170.5	5.8	177.4	3.1	174.6	6.1
1975	161.2	9.1	172.1	8.4	164.5	10.6
1974	147.7	11.0	158.7	13.8	148.8	11.3
1973	133.1	6.2	139.5	13.2	133.7	4.4
1972	125.3	3.3	123.2	4.1	128.1	3.8
1971	121.3	4.3	118.3	3.1	123.4	4.4
1970	116.3	5.9	114.7	5.4	118.2	7.1
1969	109.8	5.4	108.8	5.0	110.4	6.2
1968	104.2	4.2	103.6	3.6	104.0	4.0
1967	100.0	2.9	100.0	...	100.0	2.9
1966	97.2	2.9	...	...	97.2	2.4
1965	94.5	1.7	...	...	94.9	1.2
1964	92.9	1.3	...	...	93.8	1.2
1963	91.7	1.2	...	...	92.7	1.1
1962	90.6	1.1	...	...	91.7	0.9
1961	89.6	1.0	...	...	90.9	0.8
1960	88.7	1.6	...	...	90.2	1.8
1959	87.3	0.8	...	...	88.6	1.0
1958	86.6	2.7	...	...	87.7	1.7

Year	Transportation		Gas and Electricity		Electricity	
	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year
1981*	**280.0**	**12.1**	**345.9**	**14.6**	**291.5**	**15.0**
1980*	249.7	17.8	301.8	17.1	253.4	15.7
1979*	212.0	14.3	257.8	10.8	219.1	7.7
1978*	185.5	4.7	232.6	9.0	203.4	7.4
1977	177.2	7.1	213.4	12.9	189.3	6.6
1976	165.5	9.9	189.0	11.4	177.6	6.3
1975	150.6	9.4	169.6	16.3	167.0	13.2
1974	137.7	11.2	145.8	15.3	147.5	18.1
1973	123.8	3.3	126.4	4.9	124.9	5.0
1972	119.9	1.1	120.5	5.1	118.9	5.0
1971	118.6	5.2	114.7	6.9	113.2	5.6
1970	112.7	5.1	107.3	4.4	106.2	3.3
1969	107.2	3.9	102.8	1.9	102.8	1.9
1968	103.2	3.2	100.9	0.9	100.9	0.9
1967	100.0	2.9	100.0	0.4	100.0	0.9
1966	97.2	1.4	99.6	0.2	99.1	0.0
1965	95.9	1.7	99.4	0.0	99.1	(0.5)
1964	94.3	1.4	99.4	0.0	99.6	(0.5)
1963	93.0	0.5	99.4	0.0	100.1	0.0
1962	92.5	2.1	99.4	0.0	100.1	0.0
1961	90.6	1.1	99.4	0.8	100.1	0.3
1960	89.6	0.0	98.6	4.1	99.8	1.3
1959	89.6	4.2	94.7	2.5	98.5	1.4
1958	86.0	3.2	92.4	3.5	97.1	1.3

*Data beginning 1978 are for All Urban Consumers; earlier data are for Urban Wage Earners and Clerical Workers.
( ) Denotes negative figure. r Revised.
Source: U.S. Bureau of Labor Statistics.

TABLE 83
RESIDENTIAL ELECTRICITY AND CONSUMER PRICE INDEX
TOTAL ELECTRIC UTILITY INDUSTRY*

Year	Average Revenue per Residential Kwhr Used	Average Rate per Kwhr Based on Average of Typical Bills in Cities** Price per Kwhr for Monthly Use of: 100 Kwhr	250 Kwhr	500 Kwhr	750 Kwhr	1,000 Kwhr	U.S. Bureau of Labor Statistics Index Numbers Based on 1967 = 100† Electricity	Consumer Price Index
		(Energy Information Administration)						
1981	**5.89¢**	---	---	---	---	---	**291.5**	**272.4**
1980	5.12r	---	7.10¢	6.52¢	5.87¢	5.82¢	253.4r	246.8r
1979	4.43r	---	6.11	5.56r	4.92	4.87	219.1r	217.4r
1978	4.03	7.10¢	5.54	4.61	4.36	4.31	203.4r	195.4r
1977	3.78	6.87	5.39	4.44	4.16	4.10	189.3	181.5
1976	3.45	6.54	5.14	4.17	3.90	3.82	177.6	170.5
1975	3.21	6.15	4.82	3.85	3.57	3.49	167.0	161.2
1974	2.83	5.89	4.60	3.59	3.30	3.23	147.5	147.7
1973	2.38	4.99	3.79	2.82	2.55	2.49	124.9	133.1
1972	2.29	4.65	3.47	2.51	2.26	2.19	118.9	125.3
1971	2.19	4.51	3.34	2.40	2.15	2.07	113.2	121.3
1970	2.10	4.25	3.14	2.23	2.00	1.92	106.2	116.3
1969	2.09	4.09	3.00	2.10	1.90	1.83	102.8	109.8
1968	2.12	4.05	2.96	2.06	1.86	1.80	100.9	104.2
1967	2.17	4.03	2.95	2.07	1.89	1.83	100.0	100.0
1966	2.20	4.03	2.95	2.07	1.89	1.83	99.1	97.2
1965	2.25	4.00	2.94	2.07	1.89	1.83	99.1	94.5
1964	2.31	4.02	2.95	2.08	1.91	1.86	99.6	92.9
1963	2.37	4.03	2.97	2.12	1.93	1.89	100.1	91.7
1962	2.41	4.06	2.99	2.13	1.95	---	100.1	90.6
1961	2.45	4.06	2.99	2.13	---	---	100.1	89.6

*Alaska and Hawaii included since 1964.

**As determined by the Energy Information Administration in its "Typical Electric Bills." The figures cover rate schedules as of December 31 in all cities with populations of 2,500 or more.

†"Index numbers" are percentages of the base year 1967. For a description of the components and characteristics of this index, see BLS Handbook of Methods, Bulletin # 1711 for 1971. Data beginning 1978 are for All Urban Consumers; earlier data are for Urban Wage Earners and Clerical Workers. r Revised.

TABLE 84
PRODUCER PRICE INDEX – ALL ITEMS AND SELECTED INDUSTRIAL COMMODITIES
YEAR 1967 Equals 100

	All Items		Metals and Metal Products		Machinery and Equipment		Furniture and Household Durables		Fuels and Related Products and Power	
Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year
1981	**293.4**	**9.2**	**300.4**	**4.9**	**263.1**	**9.7**	**198.4**	**5.7**	**694.4**	**21.0**
1980	268.8	14.1	286.4	10.5	239.8	12.1	187.7	9.6	574.0	40.7
1979	235.6	12.6	259.3	14.2	213.9	9.1	171.3	6.8	408.1	26.5
1978	209.3	7.8	227.1	8.7	196.1	7.9	160.4	5.9	322.5	6.7
1977	194.2	6.1	209.0	6.7	181.7	6.3	151.5	4.1	302.2	13.8
1976	183.0	4.6	195.9	5.5	171.0	5.9	145.6	4.2	265.6	8.4
1975	174.9	9.2	185.6	8.0	161.4	15.8	139.7	9.2	245.1	17.7
1974	160.1	18.9	171.9	29.4	139.4	14.5	127.9	11.0	208.3	55.1
1973	134.7	13.1	132.8	7.5	121.7	3.2	115.2	3.4	134.3	13.8
1972	119.1	4.5	123.5	4.0	117.9	2.1	111.4	1.3	118.6	3.0
1971	114.0	3.3	118.7	1.8	115.5	3.7	110.0	2.3	115.2	8.5
1970	110.4	3.7	116.6	7.5	111.4	4.6	107.5	2.5	106.2	5.3
1969	106.5	3.9	108.5	5.8	106.5	3.2	104.9	2.0	100.9	2.0
1968	102.5	2.5	102.6	2.6	103.2	3.2	102.8	2.8	98.9	(1.1)
1967	100.0	0.1	100.0	1.2	100.0	3.3	100.0	2.0	100.0	2.2
1966	99.8	3.3	98.8	2.5	96.8	3.1	98.0	1.1	97.8	2.4
1965	96.6	2.0	96.4	2.8	93.9	1.1	96.9	(0.5)	95.5	1.9
1964	94.7	0.2	93.8	2.7	92.8	0.7	97.4	0.4	93.7	(2.7)
1963	94.5	(0.3)	91.3	0.1	92.2	0.1	97.0	(0.7)	96.3	(0.4)
1962	94.8	0.3	91.2	(0.8)	92.0	0.2	97.7	(0.7)	96.7	(0.5)
1961	94.5	(0.4)	91.9	(0.6)	91.9	(0.1)	98.4	(0.7)	97.2	1.1

	Coal		Gas Fuels		Electric Power		Crude Petroleum		Petroleum Products, Refined	
Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year
1981	**497.3**	**6.4**	**939.8**	**23.5**	**366.8**	**14.1**	**803.6**	**44.4**	**805.8**	**19.4**
1980	467.3	3.6	760.7	39.8	321.6	18.7	556.4	47.8	674.7	51.7
1979	450.9	4.9	544.1	26.9	270.9	8.1	376.5	25.4	444.8	38.6
1978	430.0	10.4	428.7	10.5	250.6	7.6	300.1	9.4	321.0	4.2
1977	389.4	5.6	387.8	35.2	232.9	12.1	274.2	8.1	308.2	11.4
1976	368.7	(4.4)	286.8	32.3	207.6	7.4	253.6	3.2	276.6	7.4
1975	385.8	16.1	216.7	33.6	193.4	18.6	245.7	16.0	257.5	15.3
1974	332.4	52.4	162.2	28.0	163.1	26.1	211.8	68.1	223.4	73.5
1973	218.1	12.5	126.7	11.0	129.3	6.4	126.0	10.7	128.7	18.2
1972	193.8	6.5	114.1	5.2	121.5	4.6	113.8	(0.7)	108.9	1.6
1971	182.0	21.1	108.5	4.7	116.2	9.7	114.6	8.0	107.2	6.1
1970	150.3	33.5	103.6	11.0	105.9	4.0	106.1	0.9	101.0	1.4
1969	112.6	8.6	93.3	0.5	101.8	0.9	105.2	4.4	99.6	1.5
1968	103.7	3.7	92.7	(7.3)	100.9	0.9	100.8	0.8	98.1	(1.9)
1967	100.0	4.7	100.0	3.5	100.0	0.4	100.0	1.1	100.0	2.7
1966	95.5	2.2	96.7	4.2	99.6	(0.5)	98.9	0.7	97.4	3.8
1965	93.4	(0.4)	92.8	2.3	100.1	(0.3)	98.2	(0.1)	93.8	3.4
1964	93.8	0.0	90.7	(1.2)	100.4	(0.9)	98.3	(0.4)	90.7	(4.6)
1963	93.8	0.1	91.8	2.9	101.3	(0.8)	98.7	(0.4)	95.1	(1.0)
1962	93.7	(1.0)	89.2	0.6	102.1	0.4	99.1	0.2	96.1	(1.1)
1961	94.6	(1.0)	88.7	1.7	101.7	0.5	98.9	0.3	97.2	1.8

( ) Denotes negative figure.
Source: U.S. Bureau of Labor Statistics.

TABLE 85
COST TRENDS OF ELECTRIC LIGHT AND POWER CONSTRUCTION*
BY GEOGRAPHIC DIVISIONS – 1961–1982
1973 EQUALS 100

Date	North Atlantic	South Atlantic	North Central	South Central	Plateau	Pacific
Jan. 1, 1982	220	225	226	234	235	243
July 1, 1981	209	218	215	222	222	230
Jan. 1, 1981	203	210	208	214	216	225
July 1, 1980	193	197	196	203	202	209
Jan. 1, 1980	186	191	190	195	197	200
July 1, 1979	178	182	181	187	188	192
Jan. 1, 1979	168	174	173	178	179	181
July 1, 1978	161	165	165	169	170	173
Jan. 1, 1978	156	161	159	164	166	168
July 1, 1977	154	158	157	162	163	165
Jan. 1, 1977	147	152	149	155	155	157
July 1, 1976	145	148	146	151	152	151
Jan. 1, 1976	140	144	141	146	145	146
July 1, 1975	138	140	140	142	143	141
Jan. 1, 1975	130	133	132	134	133	132
July 1, 1974	119	120	120	122	120	120
Jan. 1, 1974	105	105	104	105	105	105
July 1, 1973	100	99	100	100	100	100
Jan. 1, 1973	95	96	96	95	96	96
July 1, 1972	93	94	94	93	94	94
Jan. 1, 1972	92	91	94	91	92	93

Date	North Atlantic	South Atlantic	North Central	South Central	Plateau	Pacific
July 1, 1971	87	88	90	89	90	88
Jan. 1, 1971	83	84	86	85	85	85
July 1, 1970	81	81	84	83	82	83
Jan. 1, 1970	77	79	80	80	80	80
July 1, 1969	74	76	77	77	76	77
Jan. 1, 1969	72	73	74	74	74	74
July 1, 1968	70	70	71	72	72	73
Jan. 1, 1968	69	70	71	72	72	72
July 1, 1967	68	68	69	70	71	71
Jan. 1, 1967	67	67	67	68	68	69
July 1, 1966	66	66	66	67	67	68
Jan. 1, 1966	64	65	65	66	66	67
July 1, 1965	64	64	65	65	66	66
Jan. 1, 1965	63	63	63	64	65	65
July 1, 1964	62	62	63	63	64	64
Jan. 1, 1964	61	62	62	62	63	63
July 1, 1963	60	61	61	61	62	62
Jan. 1, 1963	60	60	61	61	63	62
July 1, 1962	60	61	61	61	63	62
Jan. 1, 1962	59	60	61	61	62	62
July 1, 1961	59	60	60	61	62	62
Jan. 1, 1961	60	61	61	62	63	63

*Index numbers shown are a composite of over 50 material and labor items included in the Handy-Whitman Index service of cost indexes of construction and equipment, all steam.

Source: Handy-Whitman Index of Public Utility Construction Costs. Published by courtesy of Whitman, Requardt and Associates, Baltimore, Maryland, 21202.

TABLE 86
COST OF INDUSTRIAL PURCHASED ELECTRIC POWER AS A PERCENT OF VALUE OF PRODUCT SHIPMENT
U.S. AVERAGE 1974–1979

Standard Industrial Classification	Industry	1979	1978	1977	1976	1975	1974
20	Food and Kindred Products	0.6	0.7	0.6	0.6	0.5	0.4
21	Tobacco Manufactures	0.4	0.4	0.4	0.3	0.3	0.3
22	Textile Mill Products	1.8	1.8	1.7	1.7	1.7	1.3
23	Apparel and Other Textile Products	0.6	0.7	0.5	0.5	0.5	0.4
24	Lumber and Wood Products	1.0	1.0	1.0	1.0	1.1	0.8
25	Furniture and Fixtures	0.8	0.8	0.8	0.8	0.7	0.6
26	Paper and Allied Products	3.1	3.1	3.0	2.7	2.7	2.3
27	Printing and Publishing	0.6	0.7	0.6	0.6	0.6	0.6
28	Chemicals and Allied Products	2.8	2.8	2.7	2.6	2.5	2.1
29	Petroleum and Coal Products	0.7	0.8	0.8	0.7	0.7	0.7
30	Rubber and Miscellaneous Plastics Products	1.7	1.7	1.6	1.5	1.6	1.3
31	Leather and Leather Products	0.6	0.6	0.7	0.6	0.6	0.5
32	Stone, Clay and Glass Products	2.3	2.3	2.3	2.2	2.2	1.9
33	Primary Metal Industries	3.2	3.2	3.0	2.7	2.7	2.2
34	Fabricated Metal Products	0.9	0.9	0.9	0.9	0.8	0.7
35	Machinery, Except Electrical	0.7	0.7	0.7	0.7	0.7	0.6
36	Electric and Electronic Equipment	0.8	0.8	0.8	0.8	0.8	0.7
37	Transportation Equipment	0.5	0.5	0.5	0.5	0.6	0.5
38	Instruments and Related Products	0.6	0.6	0.6	0.6	0.6	0.5
39	Miscellaneous Manufacturing Industries	0.7	0.7	0.7	0.7	0.7	0.7
	Total Manufacturing	1.3	1.2	1.2	1.2	1.2	1.0

Source: U.S. Department of Commerce, Annual Survey of Manufactures. Fuels and Electric Energy Consumed (AS) 4.1, and Value of Product Shipments (AS) 2.

TABLE 87
WEIGHTED AVERAGE ELECTRIC BILLS (DOLLARS)
BY CENSUS DIVISION AND CERTAIN CLASS OF SERVICE
1980–1981

Residential Service

Division	January 1, 1981					January 1, 1980				
	250 Kwh	500 Kwh	750 Kwh	1,000 Kwh	2,500 Kwh	250 Kwh	500 Kwh	750 Kwh	1,000 Kwh	2,500 Kwh
New England	$23.80	$43.76	$57.89	$76.57	$184.66	$18.87	$33.82	$43.82	$57.63	$132.33
Middle Atlantic	24.17	43.91	58.50	77.56	185.16	20.31r	36.66r	47.48r	63.14r	147.75r
East North Central	16.57	30.45	40.06	53.04	112.44	14.73	26.65	35.05	44.16	98.96
West North Central	14.97	27.53	37.38	48.49	97.23	13.92	25.62	33.89	44.22	91.72
South Atlantic	16.66	29.34	40.72	52.60	120.18	15.05	26.26	36.20	46.68	105.87
East South Central	13.80	24.40	34.55	45.01	103.35	11.49	20.09	28.48	37.19	85.41
West South Central	15.73	27.22	36.21	47.16	99.09	13.86	23.84	31.67	40.88	85.34
Mountain	16.31	28.29	38.55	49.99	108.11	14.79	25.45	34.22	44.32	95.19
Pacific	12.88	27.29	38.33	52.76	138.77	10.96	23.10r	31.59	43.68	112.73
Alaska & Hawaii	25.61	45.05	64.48	84.19	202.52	21.23	36.33	51.55	66.96	159.89
U.S. Average	$17.76	$32.61	$43.99	$58.16	$133.90	$15.29r	$27.80r	$36.94r	$48.79r	$110.91r

Commercial Service

	January 1, 1981					January 1, 1980				
	12 Kw 1,500 Kwh	30 Kw 6,000 Kwh	40 Kw 10,000 Kwh	50 Kw 12,500 Kwh	100 Kw 30,000 Kwh	12 Kw 1,500 Kwh	30 Kw 6,000 Kwh	40 Kw 10,000 Kwh	50 Kw 12,500 Kwh	100 Kw 30,000 Kwh
New England	$171.32	$568.28	$867.64	$1,027.54	$2,349.28	$139.08	$446.29	$670.14	$ 816.08	$1,869.47
Middle Atlantic	197.20	633.63	968.41	1,207.69	2,708.33	176.91	550.64	829.39	1,034.00	2,282.09
East North Central	119.79	422.27	649.55	798.13	1,781.02	103.82	364.58	563.09	695.08	1,559.74
West North Central	98.27	349.08	541.32	669.73	1,473.99	94.62	323.74	497.13	690.78	1,390.26
South Atlantic	110.34	393.64	610.78	752.81	1,653.43	99.17	348.80	539.14	665.07	1,446.52
East South Central	90.52	328.63	522.62	650.32	1,468.09	75.58	270.91	429.34	533.95	1,200.64
West South Central	98.90	344.53	529.03	651.53	1,420.33	86.75	303.49	460.23	566.90	1,226.38
Mountain	102.29	379.77	585.65	711.56	1,532.01	94.90	348.94	538.03	657.22	1,411.45
Pacific	106.38	391.74	617.28	770.09	1,785.97	85.35	311.82	484.35	677.08	1,383.85
Alaska & Hawaii	173.81	580.56	895.60	1,111.87	2,445.11	144.66	492.80	755.21	937.39	2,025.76
U.S. Average	$130.57	$449.41	$693.47	$ 856.02	$1,917.18	$114.05	$385.46	$589.57	$ 746.24	$1,624.26

Industrial Service

	January 1, 1981				January 1, 1980			
	150 Kw 30,000 Kwh	300 Kw 60,000 Kwh	1,000 Kw 200,000 Kwh	5,000 Kw 1,500,000 Kwh	150 Kw 30,000 Kwh	300 Kw 60,000 Kwh	1,000 Kw 200,000 Kwh	5,000 Kw 1,500,000 Kwh
New England	$2,411	$4,680	$15,114	$103,817	$1,838	$3,553	$11,362	$ 76,379
Middle Atlantic	3,021	5,950	17,108	108,561	2,536	5,034	16,261	100,849
East North Central	1,928	3,729	11,855	72,477	1,658	3,183	10,038	61,191
West North Central	1,633	3,130	9,712	60,071	1,421	2,786	8,800	52,764
South Atlantic	1,818	3,537	11,512	69,137	1,590	3,100	10,031	54,337
East South Central	1,715	3,367	10,597	63,734	1,368	2,670	8,205	49,994
West South Central	1,573	3,056	9,627	60,863	1,360	2,621	8,170	51,683
Mountain	1,694	3,260	10,058	63,430	1,540	2,943	9,040	57,135
Pacific	1,889	3,725	12,057	84,669	1,479	2,904	9,162	68,777
Alaska & Hawaii	2,595	5,050	16,135	106,907	2,035	3,934	12,438	80,361
U.S. Average	$2,114	$4,128	$12,756	$ 81,486	$1,757	$3,431	$10,910	$ 68,874

Source: Energy Information Administration, Typical Electric Bills.
r Revised.

TABLE 88
CIRCUIT MILES OF OVERHEAD ELECTRIC LINE OF 22,000 VOLTS AND ABOVE IN SERVICE – TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND VOLTAGE GROUPS

Division/State	Circuit Miles 1981	1980	1979
Total United States*	**573,015**	**558,795**	**546,195**
Maine	3,662	3,599	3,545
New Hampshire	2,211	2,227	2,197
Vermont	1,974	1,663	1,625
Massachusetts	5,182	5,184	5,155
Rhode Island	698	698	712
Connecticut	2,308	2,306	2,290
New England	**16,035**	**15,677**	**15,524**
New York	19,947	18,902	18,924
New Jersey	6,211	6,094	6,052
Pennsylvania	18,679	18,368	18,555
Middle Atlantic	**44,837**	**43,364**	**43,531**
Ohio	21,786	21,055	20,563
Indiana	15,313	15,772	15,726
Illinois	16,201	16,209	16,352
Michigan	17,823	17,864	17,581
Wisconsin	9,955	10,042	10,234
East North Central	**81,078**	**80,942**	**80,456**
Minnesota	10,354	10,369	10,034
Iowa	11,087	10,881	10,751
Missouri	11,568	11,497	11,452
North Dakota	6,864	6,731	6,783
South Dakota	6,665	6,660	6,551
Nebraska	9,798	8,704	8,405
Kansas	9,863	9,800	10,561
West North Central	**66,199**	**64,642**	**64,537**
Delaware	2,220	2,267	2,262
Maryland and D.C.	8,626	8,508	8,469
Virginia	11,876	11,844	11,148
West Virginia	7,156	6,999	6,929
North Carolina	21,979	19,074	18,635
South Carolina	19,321	19,159	18,869
Georgia	21,618	21,944	20,501
Florida	14,236	13,948	13,537
South Atlantic	**107,032**	**103,743**	**100,350**
Kentucky	11,916	10,758	9,979
Tennessee	22,520	21,890	19,664
Alabama	13,412	13,322	13,009
Mississippi	12,053	11,655	11,369
East South Central	**59,901**	**57,625**	**54,021**
Arkansas	6,093	6,640	6,761
Louisiana	10,482	10,332	10,389
Oklahoma	10,091	9,860	9,648
Texas	42,817	40,467	38,004
West South Central	**69,483**	**67,299**	**64,802**
Montana	9,088	9,643	9,429
Idaho	10,346	10,559	10,344
Wyoming	4,870	4,884	4,809
Colordao	6,745	6,523	6,782
New Mexico	5,395	5,681	5,652
Arizona	13,769	10,611	10,309
Utah	5,593	5,753	5,634
Nevada	6,725	6,436	5,852
Mountain	**62,531**	**60,090**	**58,811**
Washington	16,092	16,253	15,623
Oregon	10,426	10,079	9,967
California	37,945	37,551	37,099
Pacific	**64,463**	**63,883**	**62,689**
Alaska	85	85	52
Hawaii	1,371	1,445	1,422
Alaska & Hawaii	**1,456**	**1,530**	**1,474**

Nominal Voltage	Circuit Miles 1981	1980	1979
Total	**573,015**	**558,795**	**546,195**
22,000– 30,000	75,386	68,345	64,843
31,000– 40,000	62,332	58,572	61,226
41,000– 50,000	36,672	44,490	35,835
51,000– 70,000	100,067	99,695	100,358
71,000–131,000	92,495	86,994	90,541
132,000–143,000	62,970	61,693	60,950
144,000–188,000	23,168	22,779	21,760
189,000–253,000	60,501	60,012	58,474
254,000–400,000	36,949	35,451	33,164
401,000–600,000	19,259	17,687	16,257
601,000–800,000	3,216	3,077	2,787

*Does not include the following miles of line operated by REA Co-operatives: 1981 – 67,300; 1980 – 65,700; 1979 – 64,000.

TABLE 89
CIRCUIT MILES OF OVERHEAD ELECTRIC LINE OF 22,000 VOLTS AND ABOVE IN SERVICE – INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND VOLTAGE GROUPS

Division/State	Circuit Miles 1981	1980	1979
Total United States	**463,453**	**454,328**	**447,954**
Maine	3,625	3,574	3,545
New Hampshire	2,211	2,227	2,197
Vermont	1,943	1,632	1,625
Massachusetts	5,156	5,158	5,150
Rhode Island	698	698	712
Connecticut	2,274	2,272	2,256
New England	**15,907**	**15,561**	**15,485**
New York	18,783	17,735	17,817
New Jersey	6,201	6,084	6,042
Pennsylvania	18,679	18,368	18,555
Middle Atlantic	**43,663**	**42,187**	**42,414**
Ohio	21,730	20,999	20,533
Indiana	15,273	15,732	15,685
Illinois	15,992	16,006	16,206
Michigan	17,784	17,787	17,545
Wisconsin	9,907	9,998	10,218
East North Central	**80,686**	**80,522**	**80,187**
Minnesota	10,014	10,007	9,792
Iowa	10,578	10,397	10,473
Missouri	10,584	10,615	10,591
North Dakota	4,849	4,716	4,561
South Dakota	3,404	3,399	3,349
Nebraska	94	94	94
Kansas	9,745	9,687	9,590
West North Central	**49,268**	**48,915**	**48,450**
Delaware	2,191	2,247	2,262
Maryland and D.C.	8,626	8,508	8,469
Virginia	11,046	11,032	10,362
West Virginia	7,156	6,999	6,929
North Carolina	21,489	18,594	18,298
South Carolina	16,568	16,524	15,990
Georgia	17,265	18,118	17,931
Florida	11,253	11,104	10,829
South Atlantic	**95,594**	**93,126**	**91,070**
Kentucky	8,007	7,090	6,510
Tennessee	236	232	228
Alabama	9,478	9,444	9,468
Mississippi	9,184	9,046	8,879
East South Central	**26,905**	**25,812**	**25,085**
Arkansas	6,032	5,991	6,112
Louisiana	10,276	10,150	10,370
Oklahoma	7,939	7,765	7,553
Texas	38,878	36,952	34,688
West South Central	**63,125**	**60,858**	**58,723**
Montana	7,577	7,465	7,395
Idaho	10,346	9,896	9,648
Wyoming	2,864	2,878	2,853
Colorado	4,339	4,123	4,340
New Mexico	5,216	5,129	5,011
Arizona	6,412	6,403	6,361
Utah	5,418	5,578	5,458
Nevada	4,734	4,410	4,183
Mountain	**46,906**	**45,882**	**45,249**
Washington	3,583	4,090	4,066
Oregon	5,759	5,456	5,358
California	30,684	30,472	30,443
Pacific	**40,026**	**40,018**	**39,867**
Alaska	2	2	2
Hawaii	1,371	1,445	1,422
Alaska & Hawaii	**1,373**	**1,447**	**1,424**

Nominal Voltage	Circuit Miles 1981	1980	1979
Total	**463,453**	**454,328**	**447,954**
22,000– 30,000	51,019	48,004	47,004
31,000– 40,000	56,498	55,319	55,361
41,000– 50,000	32,396	38,337	31,914
51,000– 70,000	84,335	84,468	86,105
71,000–131,000	76,097	69,889	73,375
132,000–143,000	59,469	58,334	57,794
144,000–188,000	10,745	10,207	9,315
189,000–253,000	45,891	45,155	44,567
254,000–400,000	32,273	30,943	29,636
401,000–600,000	12,513	11,594	10,805
601,000–800,000	2,217	2,078	2,078

TABLE 90
AVERAGE NUMBER OF EMPLOYEES – INVESTOR-OWNED ELECTRIC UTILITIES
ELECTRIC DEPARTMENT

Year	Operation and Maintenance	Construction	Total
1981	**375,900**	**114,600**	**490,500**
1980	368,400	108,200	476,600
1979	356,200	106,800	463,000
1978	341,500	103,000	444,500
1977	326,800	99,700	426,500
1976	317,600	99,100	416,700
1975	310,500	101,000	411,500
1974	311,700	107,400	419,100
1973	307,200	107,900	415,100
1972	299,200	102,300	401,500
1971	295,200	98,500	393,700
1970	290,200	94,700	384,900
1969	282,600	89,900	372,500
1968	279,300	86,000	365,300
1967	275,500	81,900	357,400
1966	271,000	78,100	349,100
1965	268,400	77,000	345,400
1964	268,600	72,900	341,500
1963	268,700	70,800	339,500
1962	268,900	70,900	339,800
1961	272,000	71,000	343,000

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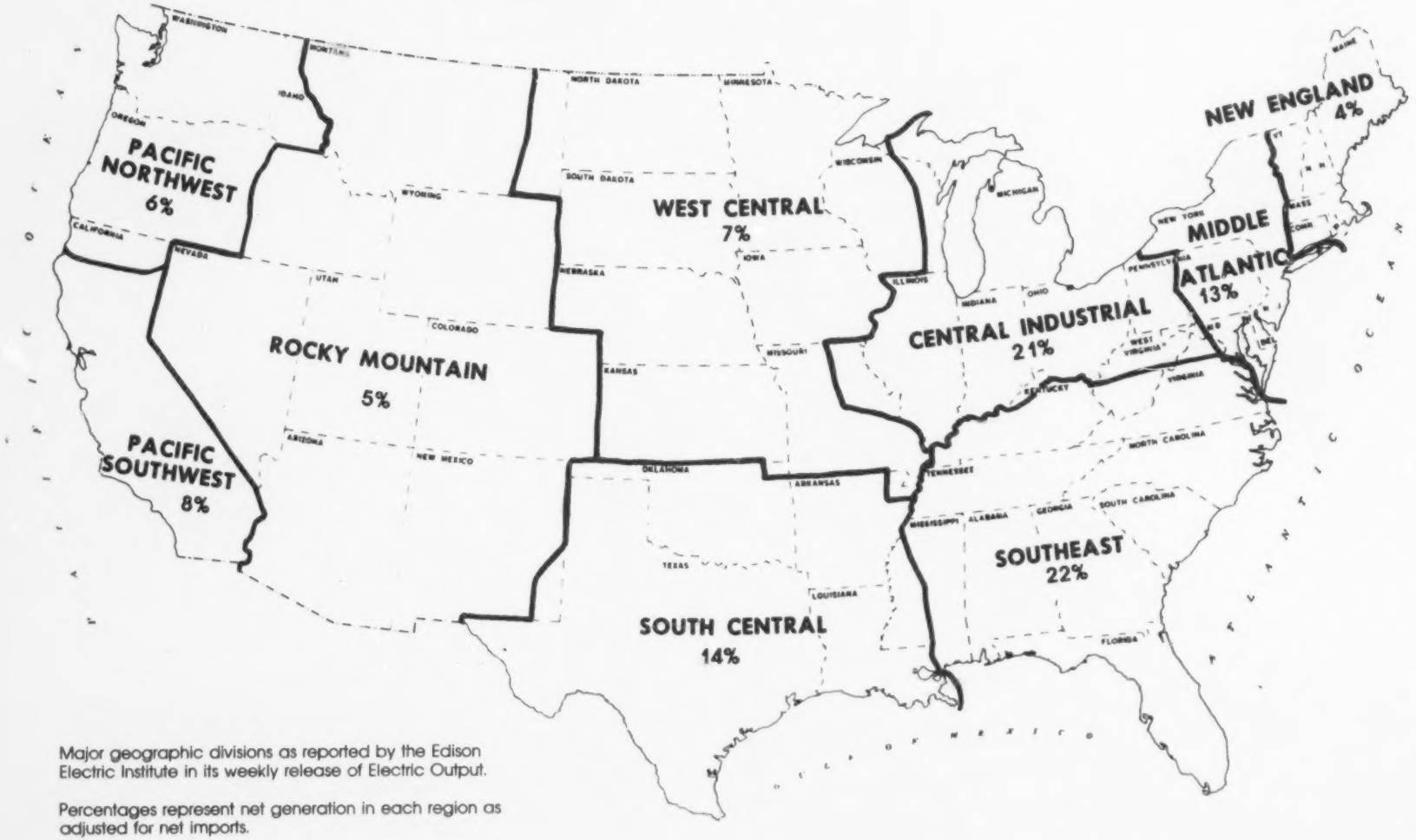
Average on utility bonds and stocks, 85, 86.

Bureau of Census geographic divisions
as reported in the
Edison Electric Institute *Statistical Year Book*.



Major geographic divisions as reported by the Edison Electric Institute in its weekly release of Electric Output.

Percentages represent net generation in each region as adjusted for net imports.

January 1, 1982

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ERRATA SHEET

Summary, Page 4 - Electric Power Supply, Line Non-Coincident Summer Peak Load (Contiguous U.S.)

	1981	Change Amount	Change Percent
now reads	430,532	3,474	0.8
should read	428,295	1,237	0.3

Summary, Page 4 - Electric Power Supply, Line Margin of Reserve (Contiguous U.S.)

	1981
now reads	32.9%
should read	33.6%

Summary, Page 5 - Capitalization, Line Other Paid-In Capital Excluding Retained Earnings

	1981	Change Amount	Change Percent
now reads	20,838	329	1.6
should read	23,838	3,329	16.2

Table 7, Page 14 - Capability - Peak Load - Kilowatt-Hour Requirements, Total Electric Utility Industry (Excluding Alaska and Hawaii)

1981	Non-Coincident Summer Peak Load (Mw)	Non-Coincident Winter Peak Load (Mw)†	Margin of Reserve Based on Non-Coincident Peak Load(%) †‡	Annual Kilowatt-Hour Requirements (in Millions)	Annual Load Factor Based on Peak Load (%)
now reads	430,532	391,199	32.9	2,309,465	61.2
should read	428,295	391,106	33.6	2,311,006	61.6

Table 70, Page 79 - Combined Balance Sheets-Year Ended December 31, Investor-Owned Electric Utilities, Line Other Paid-In Capital Excluding Retained Earnings

	1981
now reads	20,838
should read	23,838